

NEC

50752

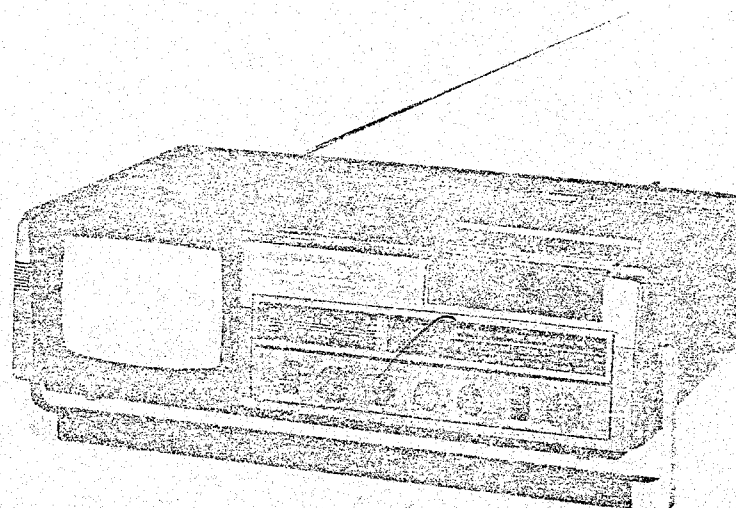
MODEL
TV-5500-2B2

5.5 B/W TV/RADIO/CASSETTE COMBINATION SERVICE MANUAL

SER. NO. 1076



Better Service
Better Reputation
Better Profit

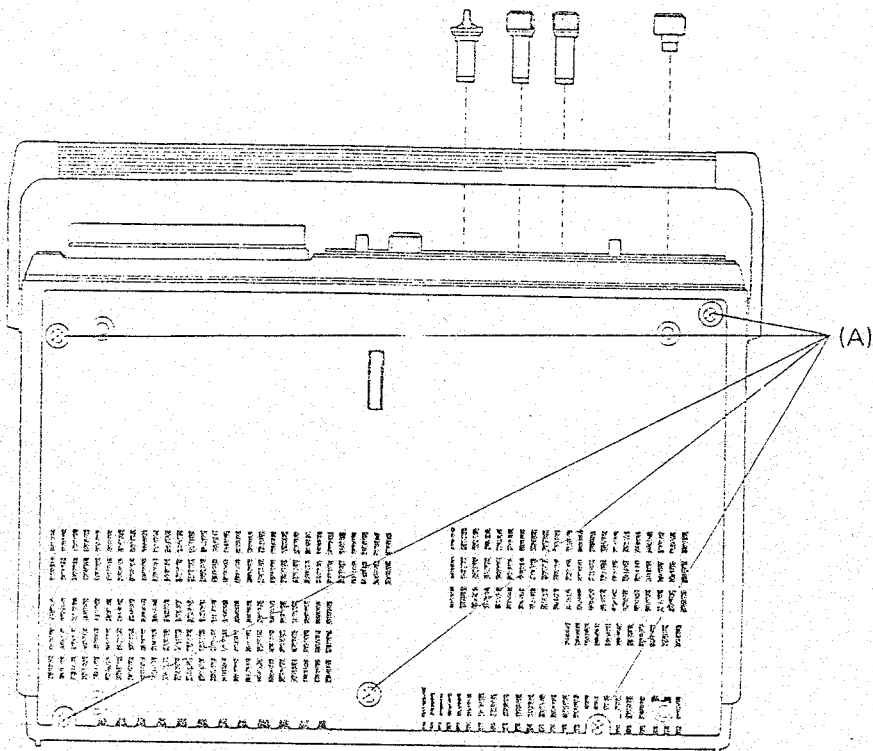


SPECIFICATIONS

Power Supply	AC 220V, 50Hz DC 12V (Car battery) Dry battery (R20 x 9)	Antenna Input	IEC 75Ω external and built-in rod antenna
TV Receiving Channel	System "B" & "G"	Power Consumption	AC 16W, DC 12V 8W
VHF	2 ~ 12 CH	Picture Tube	140CTB4
UHF	21 ~ 69 CH	Speaker	10 cm, round type
Radio Receiving Band	MW 510 ~ 1,620 KHz SW 3.8 ~ 12 MHz FM 88 ~ 108 MHz	Audio Output Power	2.0W
TV Intermediate Frequency:		Cassette Section	Frequency response 100 ~ 8,000 Hz S/N ratio 38 dB Wow & flutter 0.2% WRMS
Picture	38.9 MHz	Terminals	External MIC, Remote terminal (tape pause only), Aux-IN, Earphone jack
Sound	33.4 MHz	Semiconductors:	
Adjacent Channel Trap	40.4 MHz	ICs	5 pcs
Sound Intermediate Frequency	5.5 MHz	Transistors	31 pcs
Horizontal Scanning Frequency	15,625 Hz	Diodes	47 pcs
Vertical Scanning Frequency	50 Hz	Dimensions	415 (W) x 120 (H) x 285 (D) mm
Radio Intermediate Frequency:		Weight	5.0 Kg
FM	10.7 MHz		
AM	455 KHz		

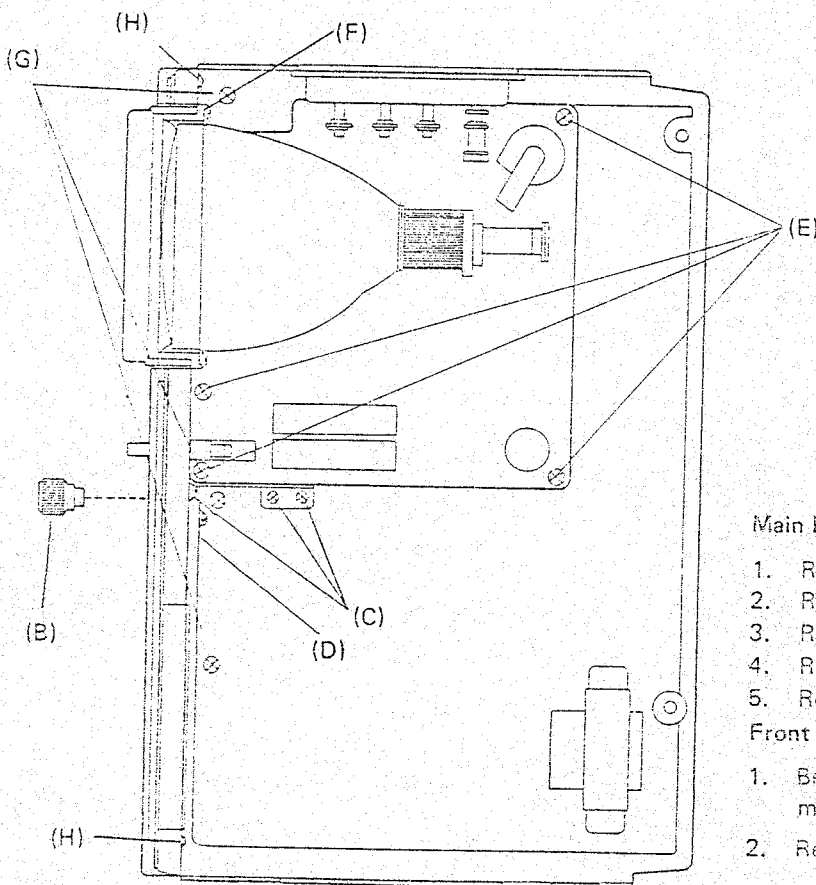
Nippon Electric Co., Ltd.
TOKYO, JAPAN

DISASSEMBLY INSTRUCTIONS



Cabinet Top Removal

1. Remove 4 knobs. (Function, Volume, Tone & Radio Tuning)
2. Remove 5 bottom cover mounting screws (A).

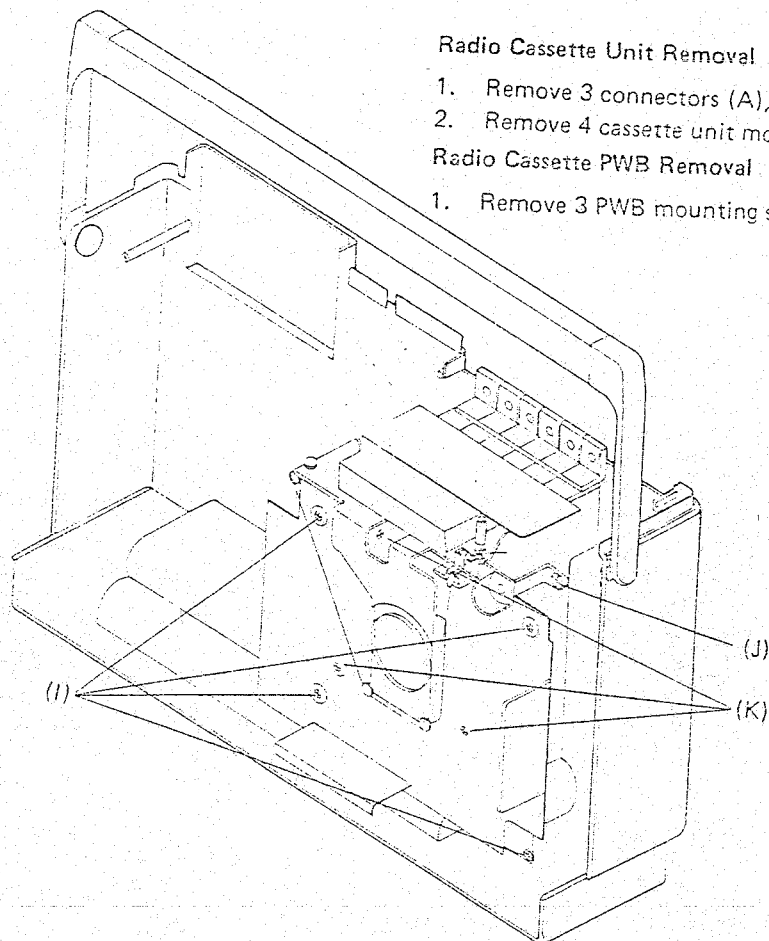


Main PWB (PW-276) Removal

1. Remove TV tuning knob (B).
2. Remove 3 main PWB mounting bracket screws (C).
3. Remove 1 volume mounting bracket screw (D).
4. Remove 4 main PWB mounting screws (E).
5. Remove 1 earth terminal mounting screw (F).

Front Panel Removal

1. Before removing front panel should be removed main PWB.
2. Remove front panel mounting screws (G) and (H).



Radio Cassette Unit Removal

1. Remove 3 connectors (A), (B) and (C) on Radio-cassette PWB (PW-283).
2. Remove 4 cassette unit mounting screws (I) and 1 cassette unit mounting screw (J).

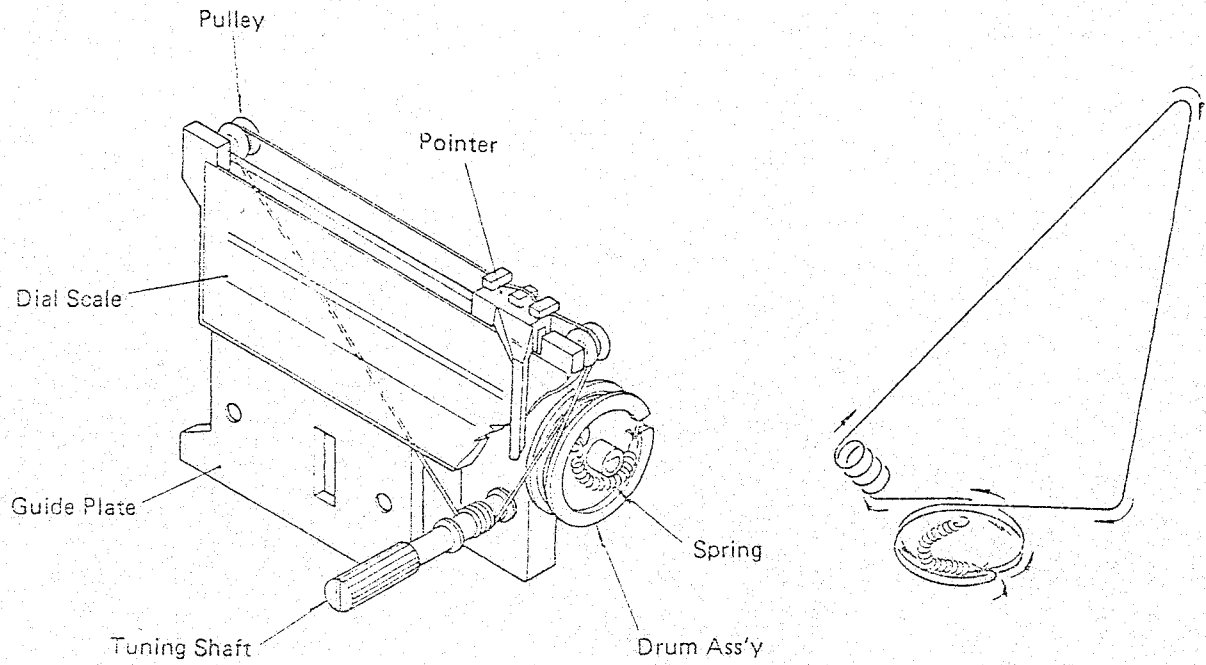
Radio Cassette PWB Removal

1. Remove 3 PWB mounting screws (K) from radio cassette unit.

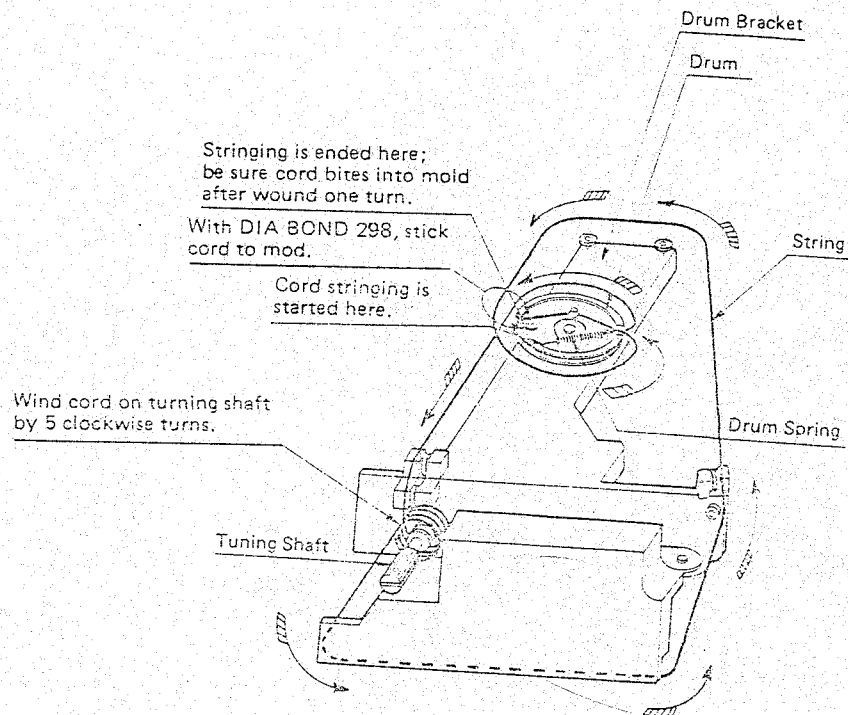
TRANSISTOR LEAD CONNECTION

	<p>2SA733 2SC945 2SC2001 2SA952 2SC1318 2SC1674 2SC1675</p>		<p>2SC1983</p>
	<p>2SC2371 2SD781</p>		<p>μPC 574J</p>

DIAL CORD STRINGING

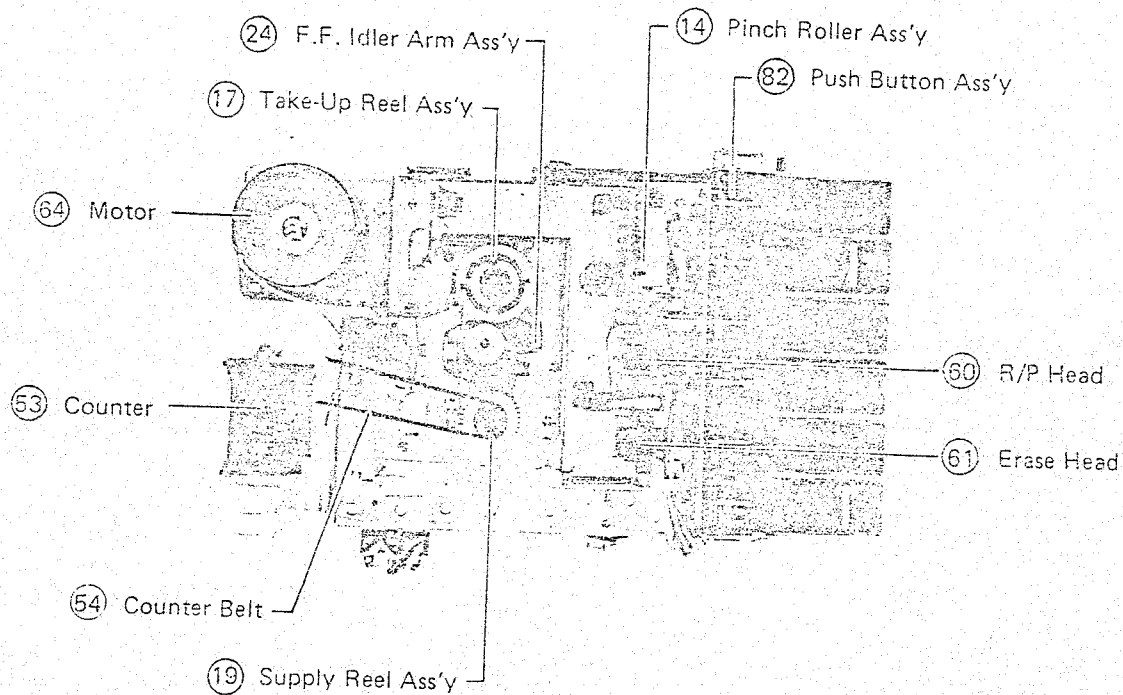


TV Section

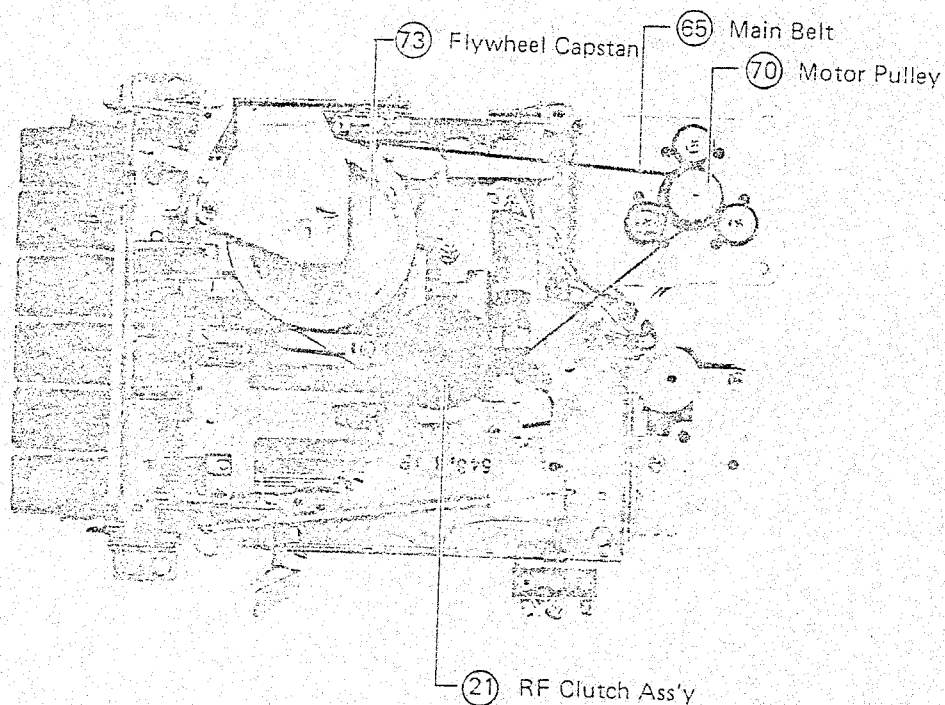


Radio Cassette Section

LOCATION OF MECHANISM UNIT (TN-27H-76)

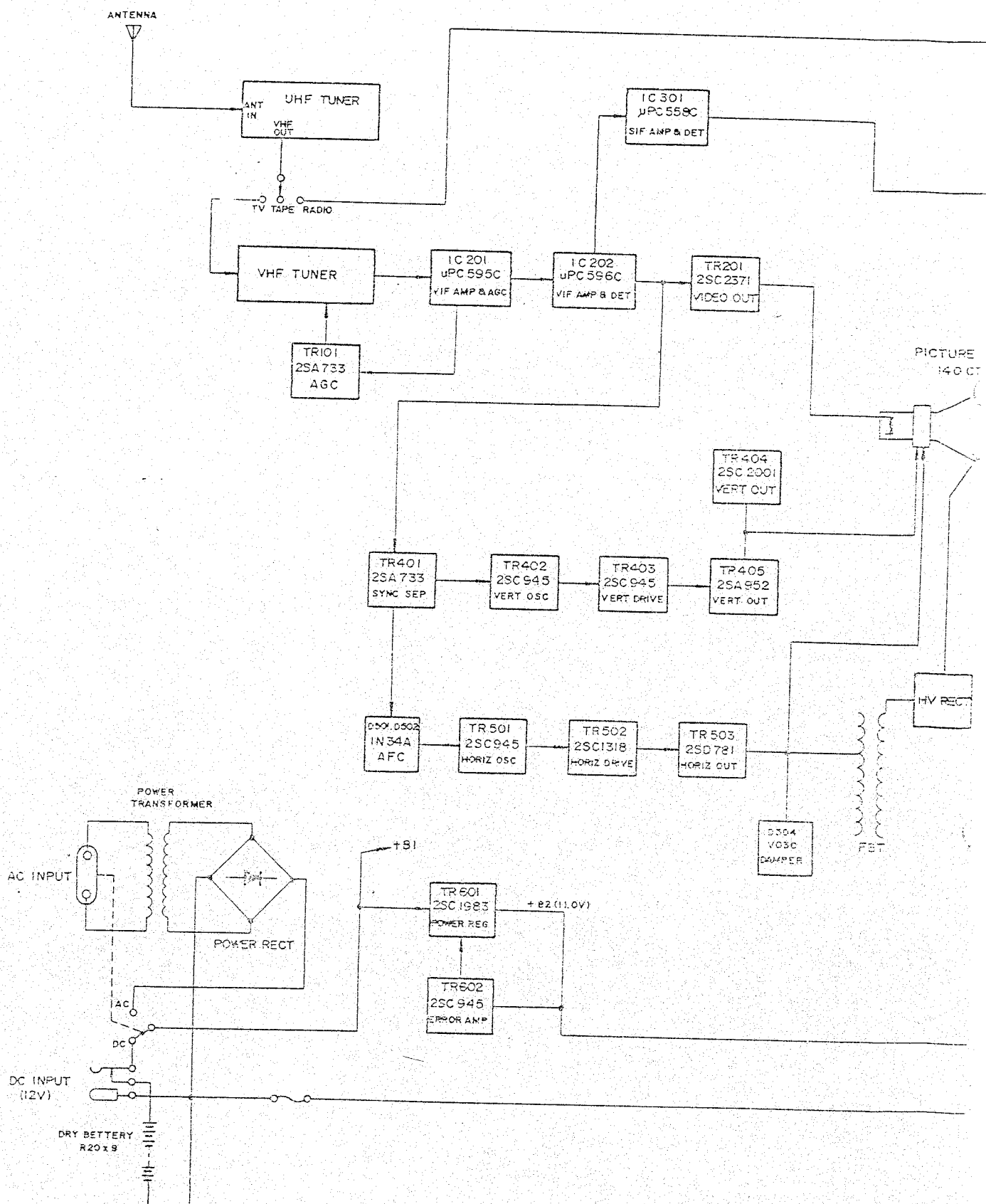


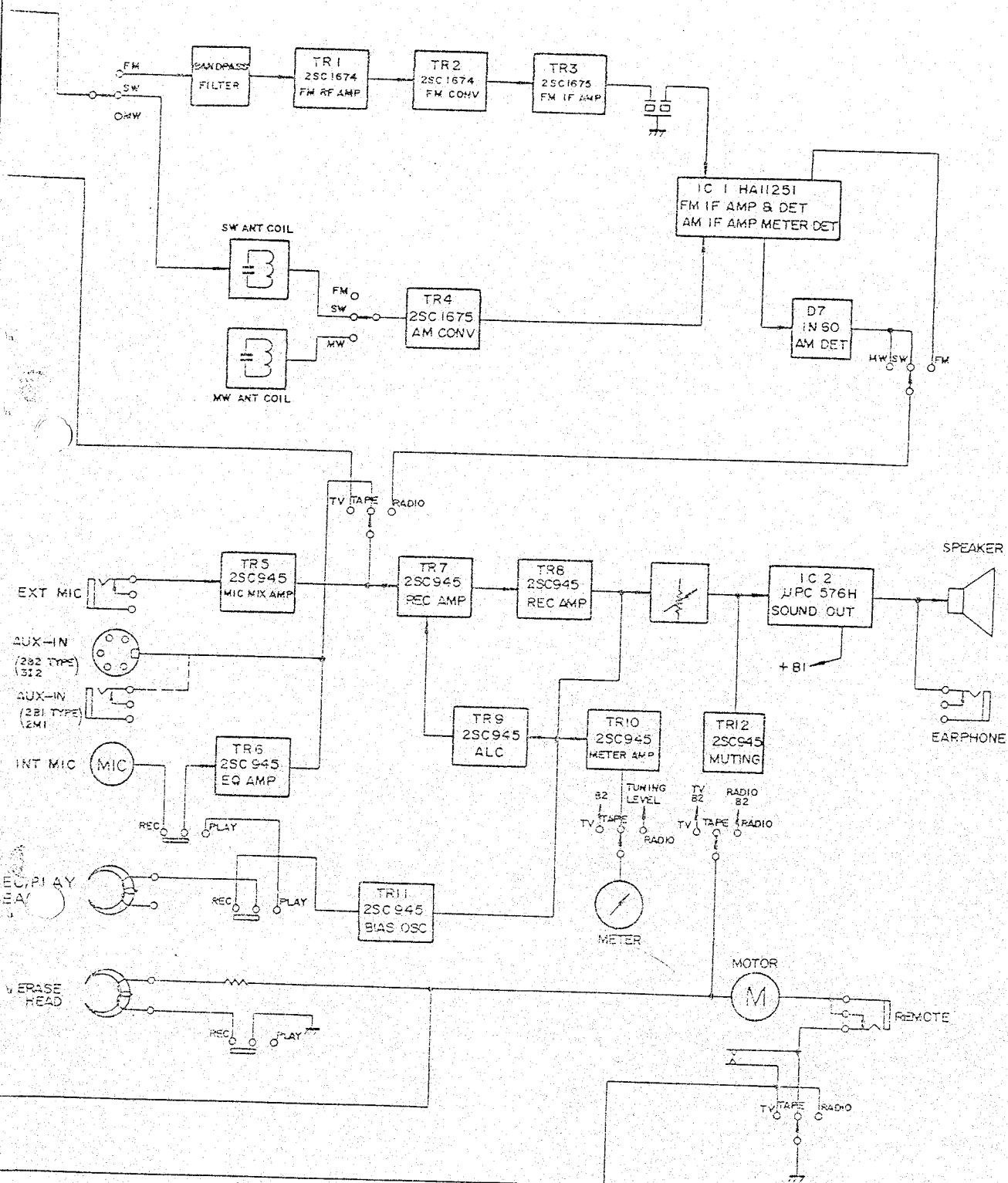
Top View



Bottom View

BLOCK DIAGRAM





ALIGNMENT INSTRUCTIONS

TV SECTION

1. DC SUPPLY VOLTAGE ADJUSTMENT

1-1 Preparation

- (1) Plug in the mains plug to the socket.
- (2) Connect DC voltmeter between TP91 (+B line) and earth.
- (3) Receive TV signal then set brightness control (VR2) and Contrast control (VR3) to max. position.

1-2 Alignment

Adjust VR601 to read the voltage 11.0 V.

2. VIDEO IF ALIGNMENT

2-1 Preparation

- (1) Instruments will be connected as shown Fig. 1.
- (2) Connect the base of TR501 to earth.
- (3) Connect AGC PAD to TP201.
- (4) Supply +B (11 V) to TP91.
- (5) Connect oscilloscope through PAD-1 to TP12.
- (6) Adjust the vertical sensitivity of oscilloscope to 0.2 V/cm.
- (7) Set the sweep generator frequency to 38 MHz (sweep center frequency), and the sweep width approx. 9 MHz.
- (8) Set SW2 to "TV" and SW101 to "VHF HIGH" position.

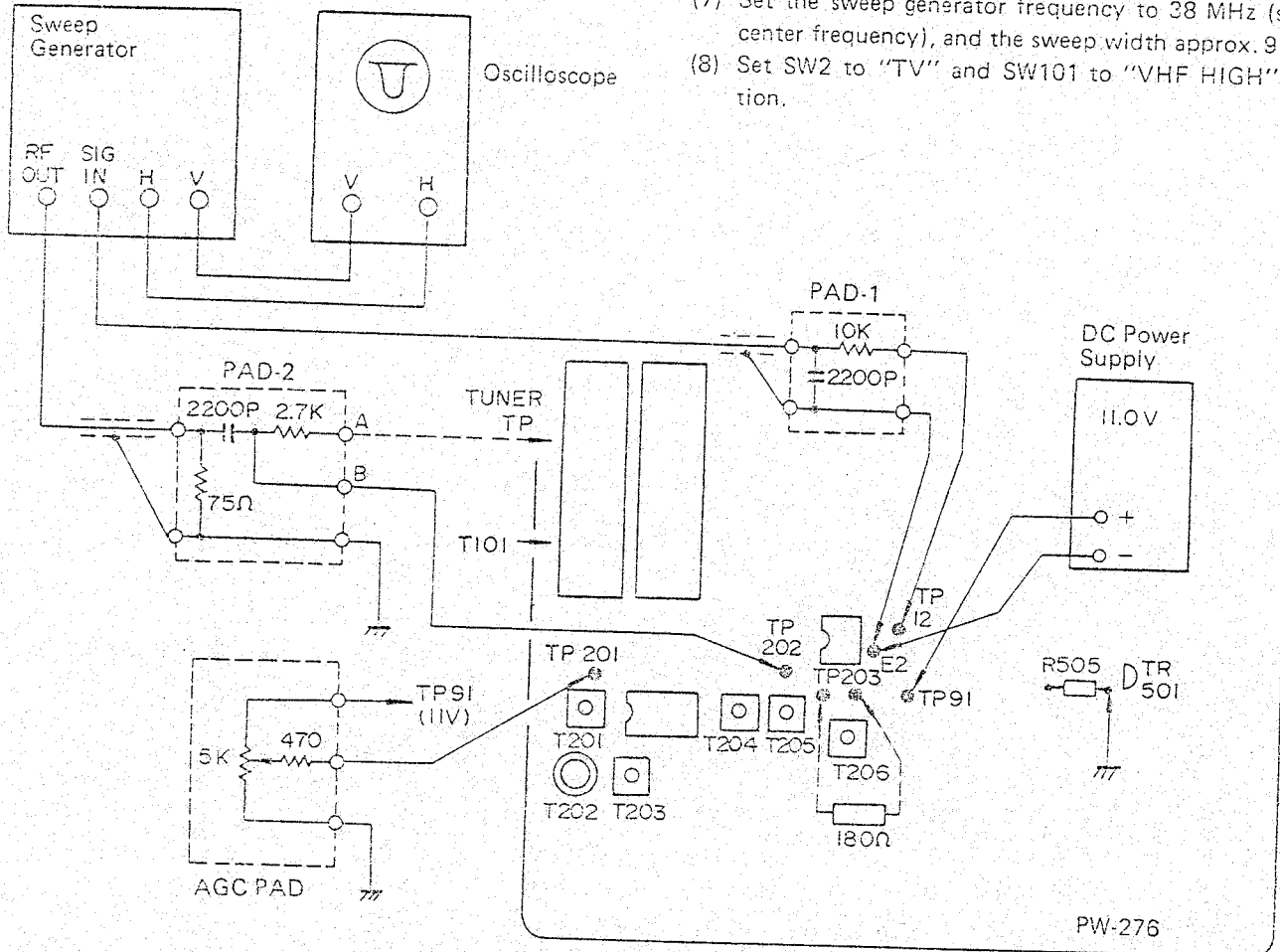


Fig. 1

2-2 Video IF amplifier final adjustment

- (1) Connect the sweep generator output through PAD-2 (B) to TP202.
 - (2) Rotate the AGC PAD to +B side.
 - (3) Adjust the vertical sensitivity of oscilloscope to 1.2 Vp-p.
 - (4) Adjust the core of T206 to obtain display shown in Fig. 2.
- (38.9 MHz must be on the maximum level.)

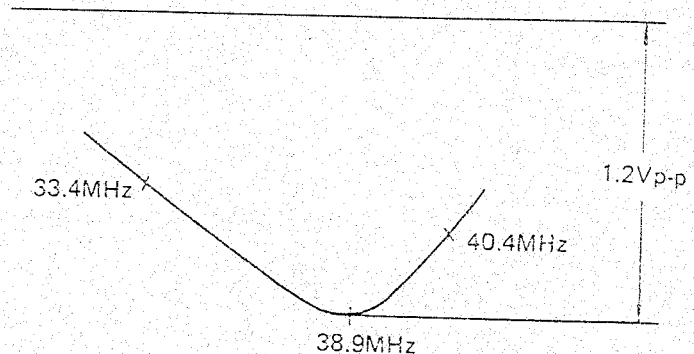


Fig. 2

2-3 Overall video IF amplifier alignment

- (1) Connect the sweep generator output to test point of tuner through PAD-2 (A).
- (2) Connect resistor 180Ω to TP203.
- (3) Adjust the AGC pad to earth side for the max. display amplitude.
- (4) Adjust the sweep generator output level to 1.2 Vp-p.
- (5) Increase the sweep generator output level by 20 dB and adjust the AGC pad VR clockwise until display shows 1.2 Vp-p.
- (6) Summarily, adjust T202 to 40.4 MHz and T203 to 33.4 MHz.
- (7) Adjust T101 (tuner IF coil) to the vicinity of 35.5 MHz and T201 to the vicinity of 38 MHz on the response.
- (8) Adjust T204 and T205 to obtain the waveform as shown in Fig. 3.
- (9) Increase the sweep generator output level by 20 dB and adjust T202 and T203 to correct position.
- (10) Reduce the sweep generator output level by 20 dB and confirm that the waveform as shown in Fig. 3. Repeat steps (7) and (8) if necessary.

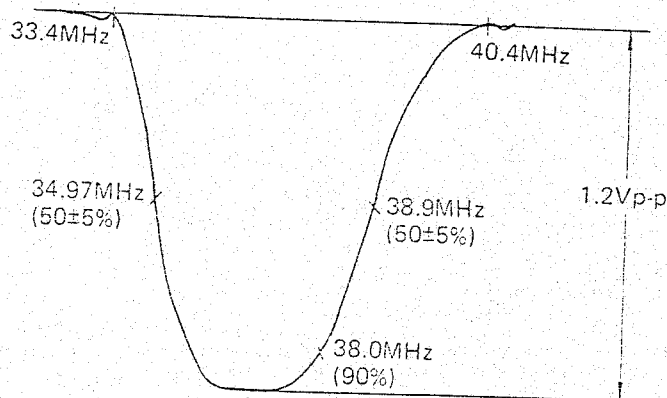


Fig. 3

3. SOUND IF ALIGNMENT

3-1 Preparation

- (1) Instruments will be connected as shown in Fig. 4.
- (2) Connect 5.5 MHz SSG through PAD-3 to TP21.
- (3) Connect oscilloscope to TP22.
- (4) Connect AGC PAD to TP201 and set VR to +B side.
- (5) Supply +B voltage (11.0 V) to TP91.
- (6) Connect the base of TR501 to earth.
- (7) The FM/AM signal generator shall be modulated;
AM modulated 400 Hz, 30%
FM deviation 400 Hz, 15 KHz

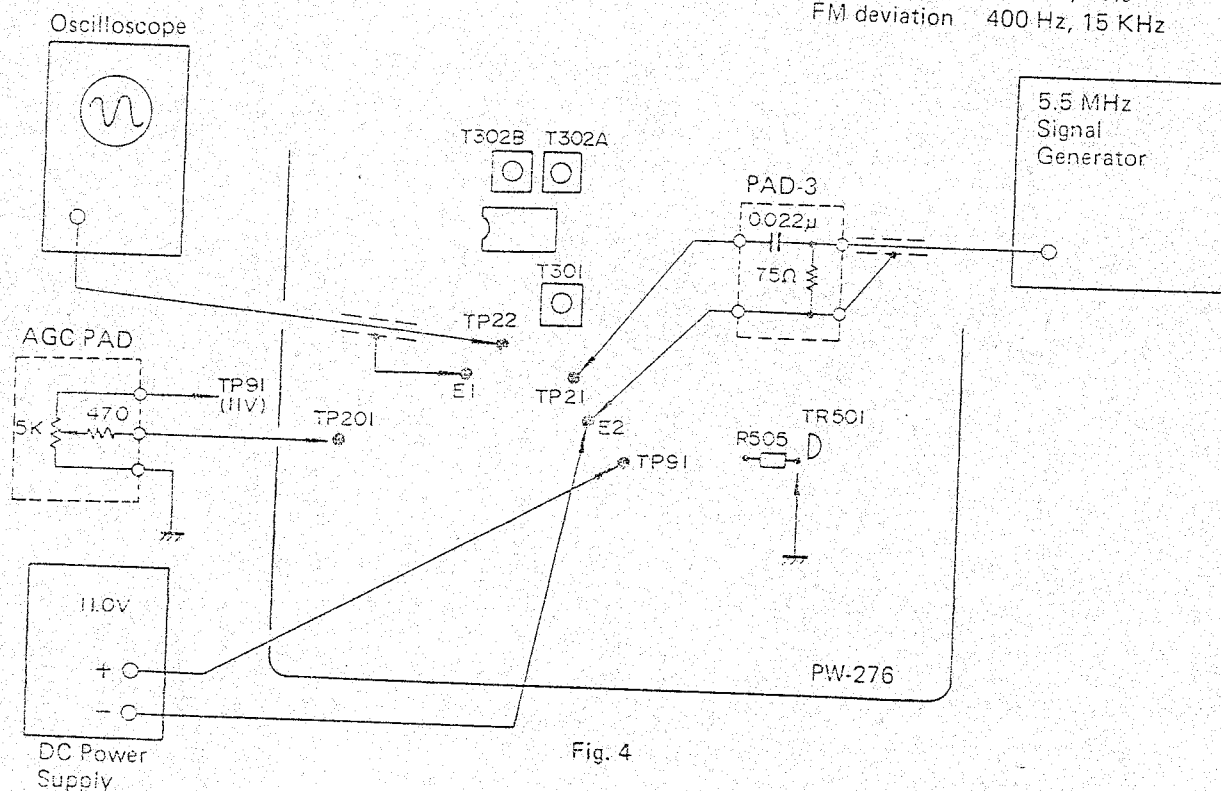


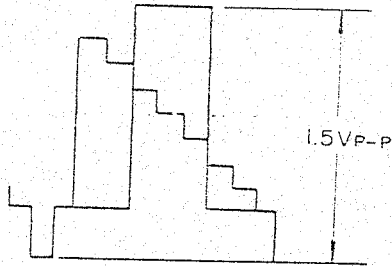
Fig. 4

3-2 Alignment

- (1) Apply FM modulated 5.5 MHz signal and adjust T301, T302A and T302B to obtain a maximum 400 Hz waveform on the oscilloscope.
Repeat the above step reducing generator output level.
- (2) Switch the signal generator to AM position. Adjust T302 slightly to obtain a minimum 400 Hz waveform on the oscilloscope.
- (3) Apply FM modulated 5.5 MHz signal, and adjust T301, T302A to obtain a maximum waveform and switch the signal generator to AM position and set to minimum waveform by T302B.

4. AGC ALIGNMENT

- (1) Connect oscilloscope to TP12.
- (2) Apply the monoscope signal (with white peak signal) to Ant. terminal.
- (3) Adjust VR202 to obtain 1.5 Vp-p between white peak and synchronized signal on the oscilloscope.



5. RF AGC ADJUSTMENT

- (1) Apply the monoscope signal of 60 dBμ output level to the antenna terminal.
- (2) Connect the DC voltmeter to TP15 (VHF tuner AGC).
- (3) Tune tuning knob to best picture.
- (4) Adjust VR201 to obtain 2.5 V on the DC voltmeter.
- (5) Increase the signal input level by 5 dB and confirm that AGC voltage decrease 0.3 V DC as compared with the previous voltage.
- (6) Repeat (4) and (5), if necessary.

6. UHF AGC ADJUSTMENT

- (1) Connect the DC voltmeter to TP16.
- (2) Adjust VR104 to obtain 1.7 V on the DC voltmeter.

7. HORIZONTAL SYNCHRONIZATION ADJUSTMENT

- (1) Receive monoscopic signal.
- (2) Provide a 100 μF capacitor (or equivalent) across TP31 and +B line side (TP91). Connection as shown in Fig. 5. At this time V. hold control must be set approx. 50 Hz (in sync.) position.
- (3) Adjust T501 to hold the picture at the center or moves slowly toward left or right direction.

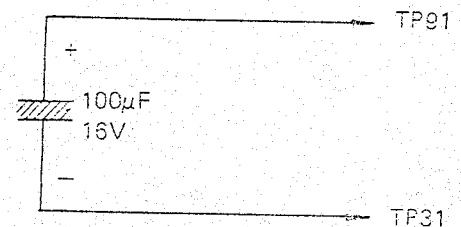


Fig. 5

8. VERTICAL SIZE ADJUSTMENT

- (1) Receive the monoscope round pattern signal.
- (2) Adjust VR401 (V. HEIGHT) and VR402 (V. LIN) for optimum round pattern.
- (3) Check the round pattern, if the pattern shrinks with the brightness reduced.
This situation must be avoided.

9. CENTERING ADJUSTMENT

- (1) Receive monoscopic signal.
- (2) Locate the monoscope signal at the center of CRT by menas centering magnets adjusted.
- (3) Rotate brightness control VR2 counterclockwise and confirm that the raster appears correctly.

10. TV DIAL SCALE INDICATOR ADJUSTMENT

- (1) Receive the broadcasting signal and tune the tuning knob to correct channel number.
- (2) Adjust sub tuning knob (VR101, VR102, VR103) to best picture point.
VR101 VHF Low Channel
VR102 VHF High Channel
VR103 UHF Channel

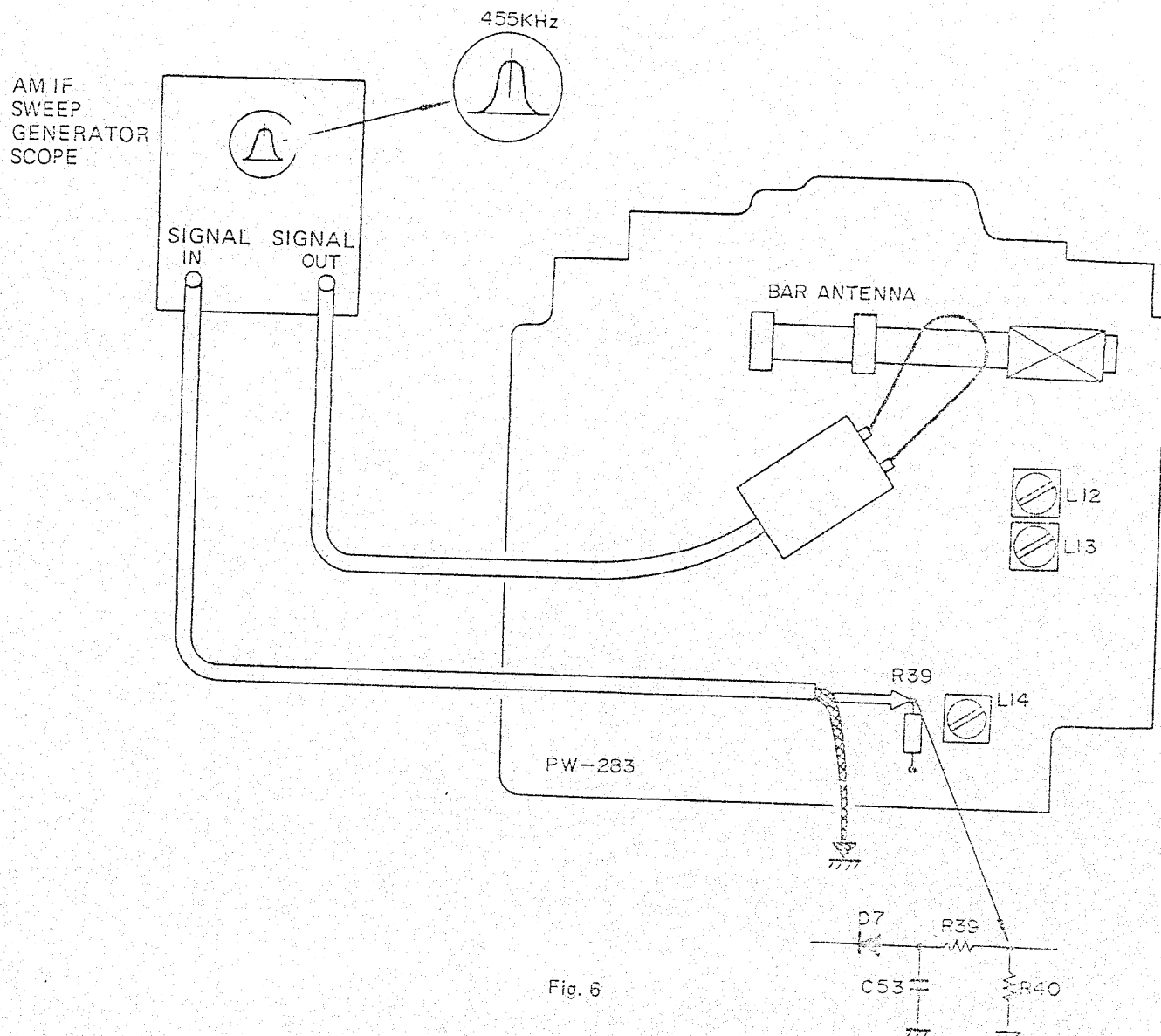
RADIO SECTION

1. AM SECTION ALIGNMENT

1-1 IF alignment

(1) Preparation

Instruments will be connected as shown in Fig. 6.



(2) Alignment

Set Signal Generator to	Set Radio Dial to	Adjustment
455KHz	Min.	L12, L13, L14 Adjust to maximum amplitude and symmetry on the sweep generator scope.

1-2 RF alignment

MW BAND

(1) Preparation

Instruments will be connected as shown in Fig. 7.

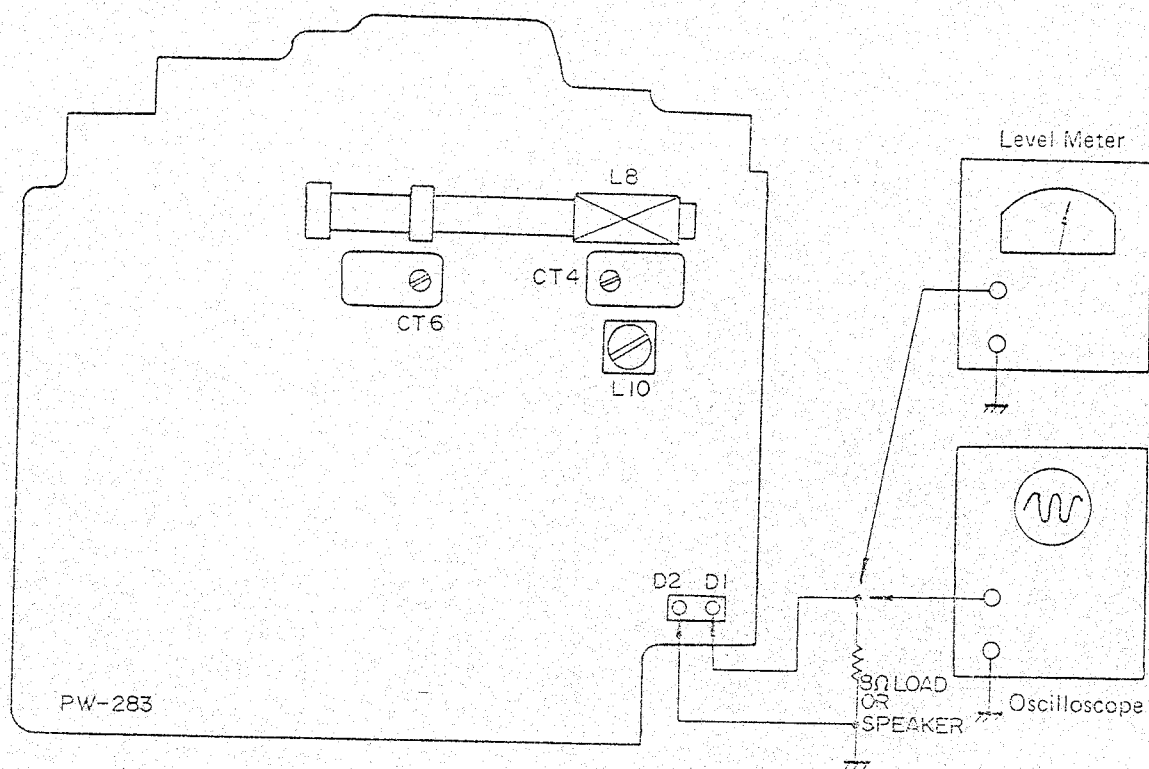
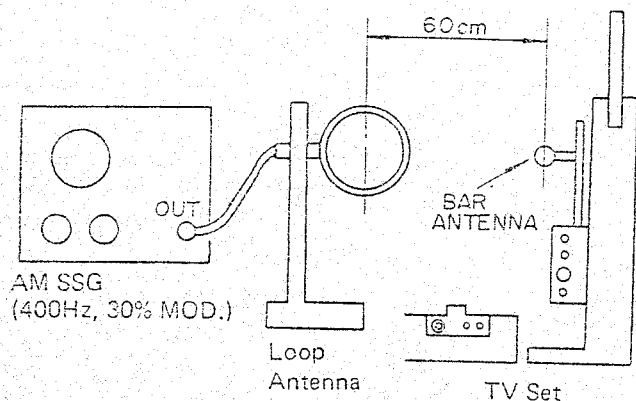


Fig. 7

(2) Alignment

Step	Set Signal Generator to	Set Radio Dial to	Adjustment
1	515KHz	Min.	L10
2	1650KHz	Max.	CT4
3	Repeat steps 1 and 2.		
4	600KHz	600KHz	L8
5	1400KHz	1400KHz	CT6
6	Repeat steps 4 and 5.		

Adjust for maximum output on the level meter (or oscilloscope).

SW BAND

(1) Preparation

Instruments will be connected as shown in Fig. 8.

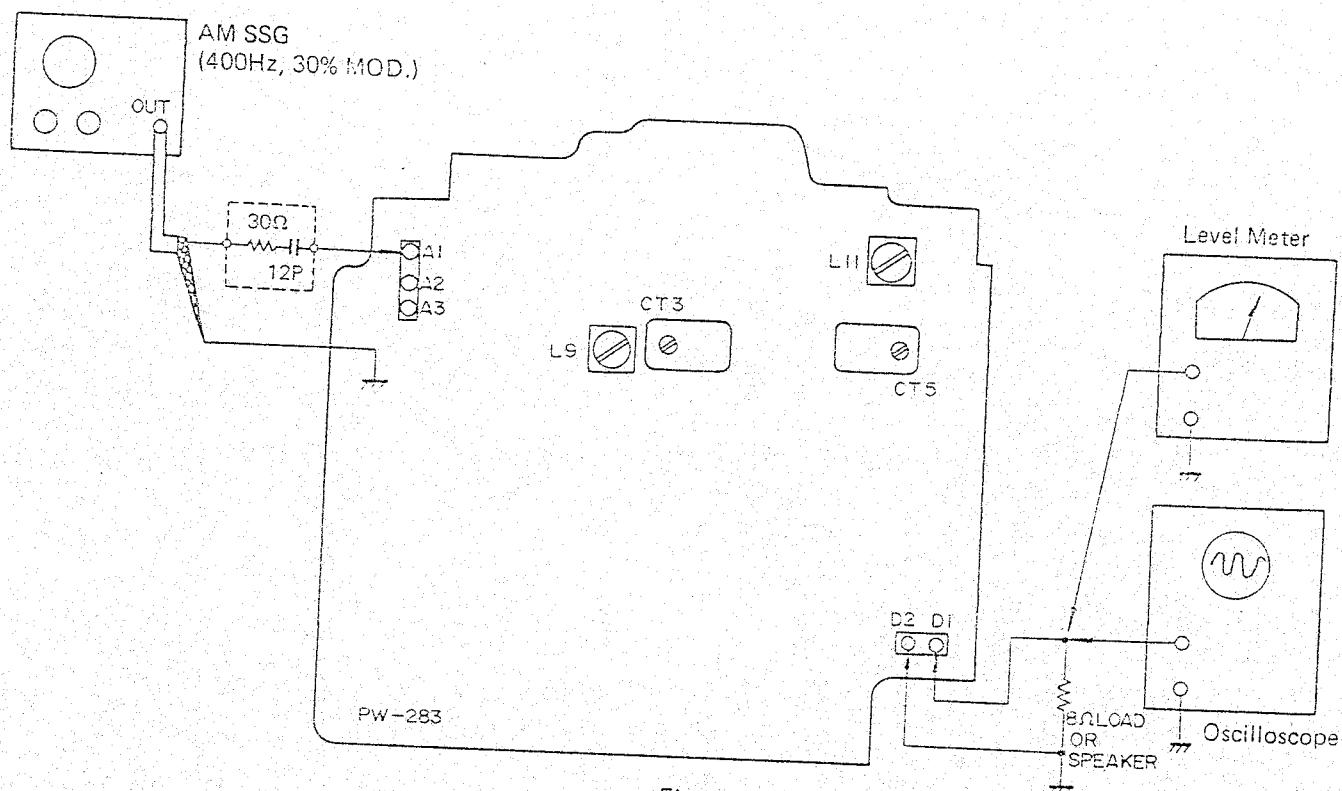


Fig. 8

(2) Alignment

Step	Set Signal Generator to	Set Radio Dial to	Adjustment
1	3.7MHz	Min.	L11
2	12.5MHz	Max.	CT5
3	Repeat steps 1 and 2.		Adjust for maximum output on the level meter (or oscilloscope).
4	4.5MHz	4.5MHz	L9
5	11.0MHz	11.0MHz	CT3
6	Repeat steps 4 and 5.		

2. FM SECTION ALIGNMENT

2-1 IF alignment

(1) Preparation

Instruments will be connected as shown in Fig. 9.

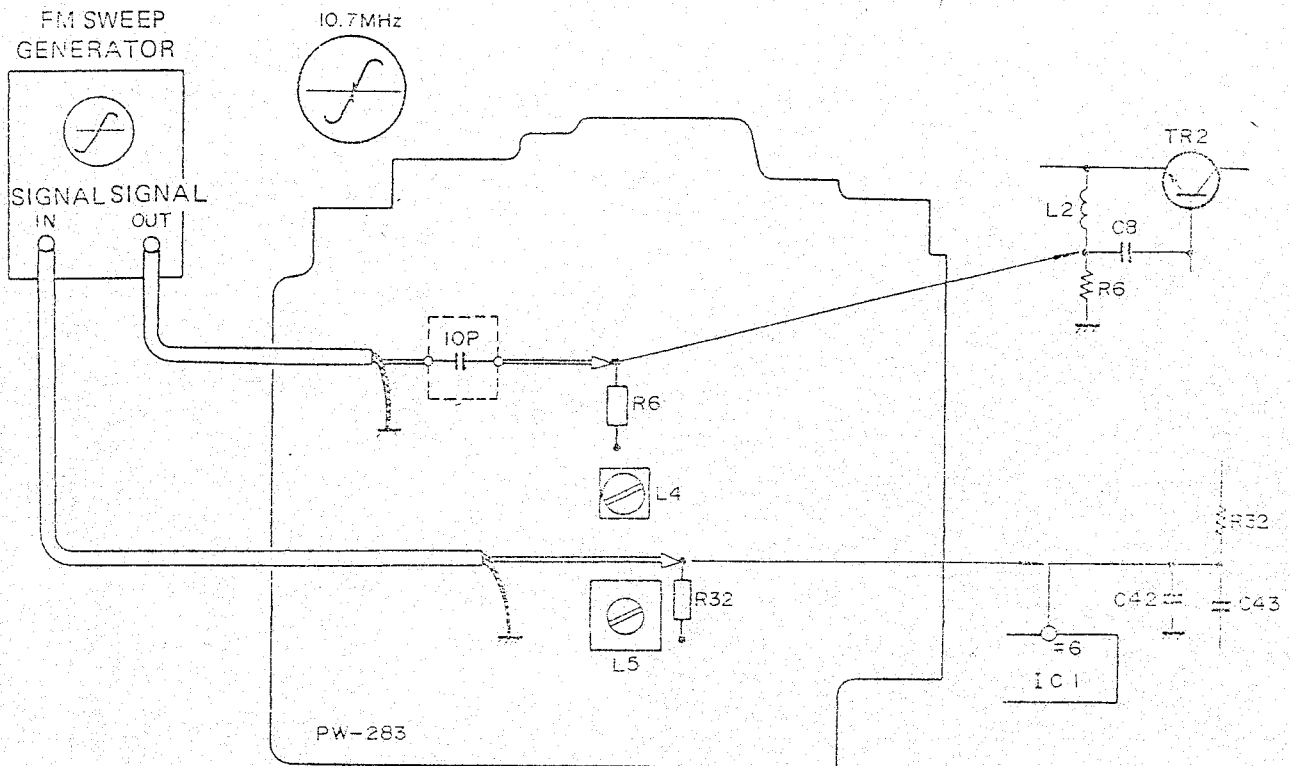


Fig. 9

(2) Alignment

Set Signal Generator to	Set Radio Dial to	Adjustment
10.7MHz	Min.	Adjust to obtain maximum amplitude and best "S" curve.

2-2 RF alignment

(1) Preparation

Instruments will be connected as shown in Fig. 10.

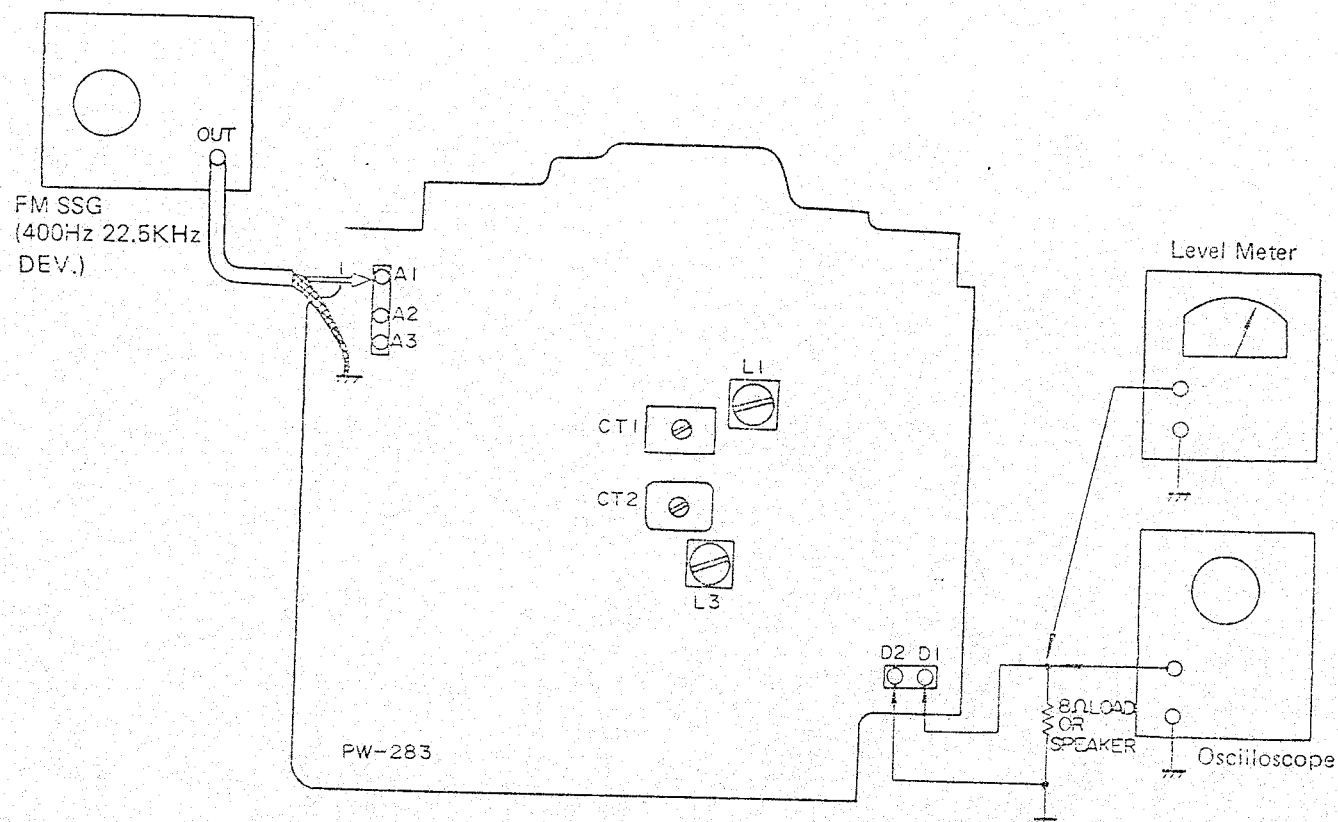


Fig. 10

(2) Alignment

Step	Set Signal Generator to	Set Radio Dial to	Adjustment
1	87.4MHz	Min.	L3
2	109MHz	Max.	CT2
3	Repeat steps 1 and 2.		Adjust for maximum output on the level meter (or oscilloscope).
4	90MHz	90MHz	L1
5	106MHz	106MHz	CT1
6	Repeat steps 4 and 5.		

CASSETTE SECTION

1. BIAS FREQUENCY AND BIAS TRAP ALIGNMENT

(1) Preparation

Instruments will be connected as shown in Fig. 11.

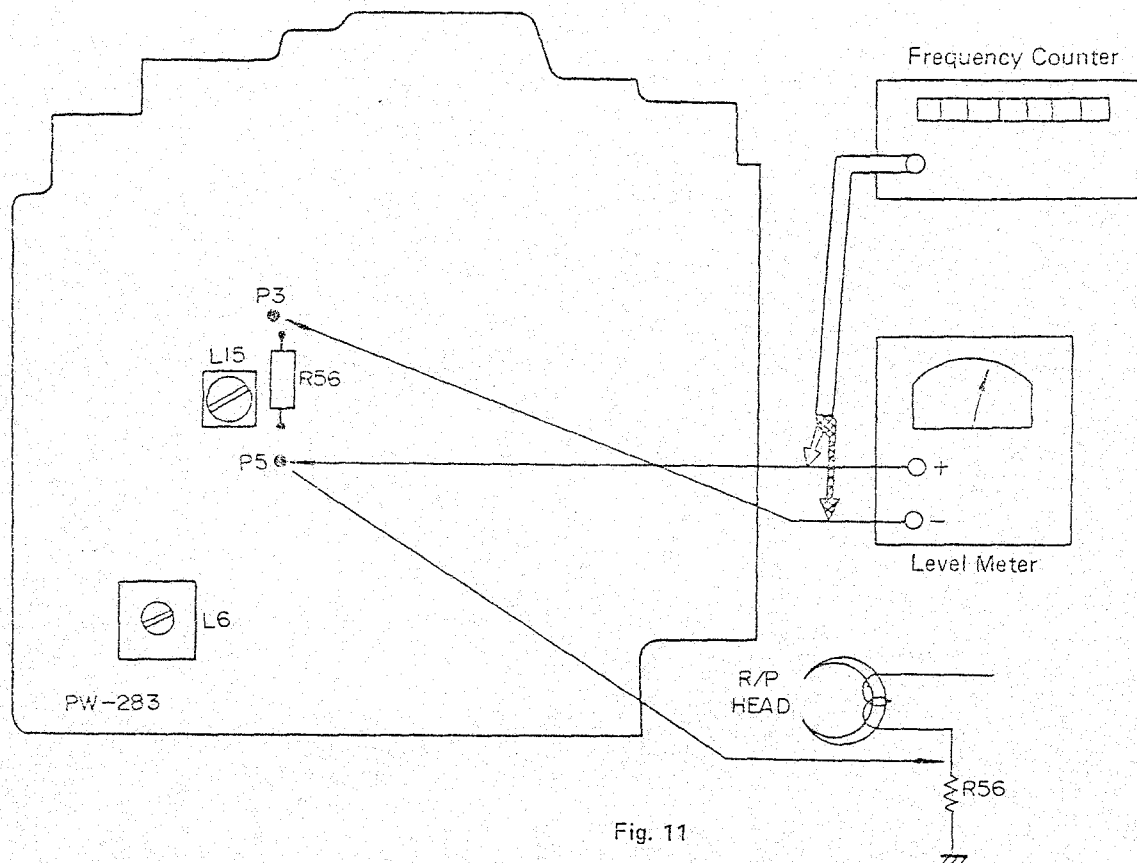


Fig. 11

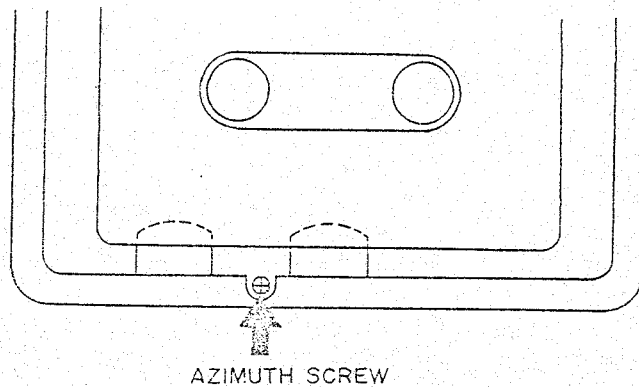
Insert the blank tape (TEAC, MTT-502 or equivalent) in the cassette compartment, and set the receiver to "RECORD" mode.

(2) Alignment

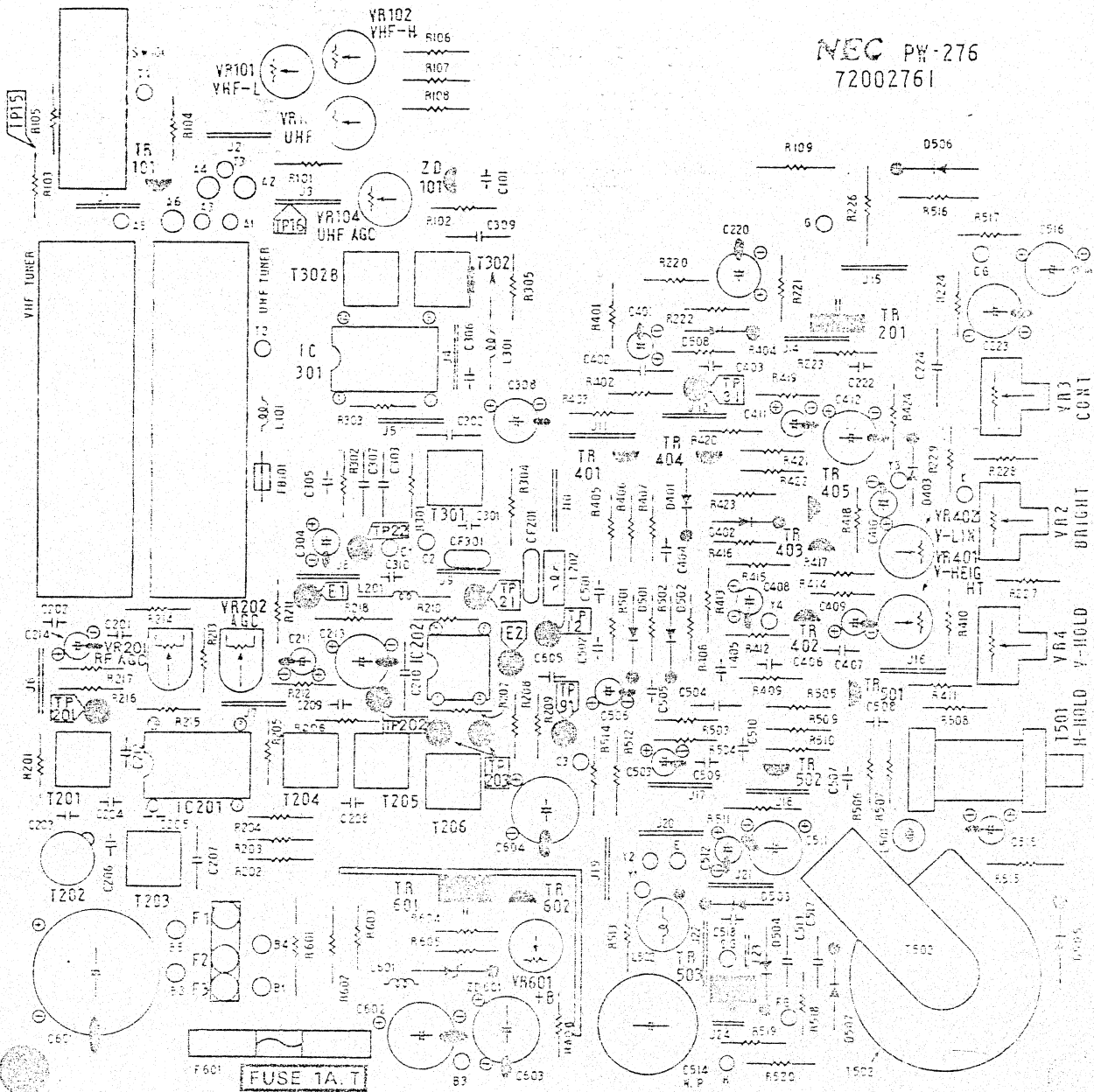
Adjustment		
BIAS FREQUENCY	L6	Adjust to obtain 35KHz on the frequency counter.
BIAS TRAP	L15	Adjust for maximum output on the level meter. (about 4.5mV)

2. AZIMUTH ADJUSTMENT

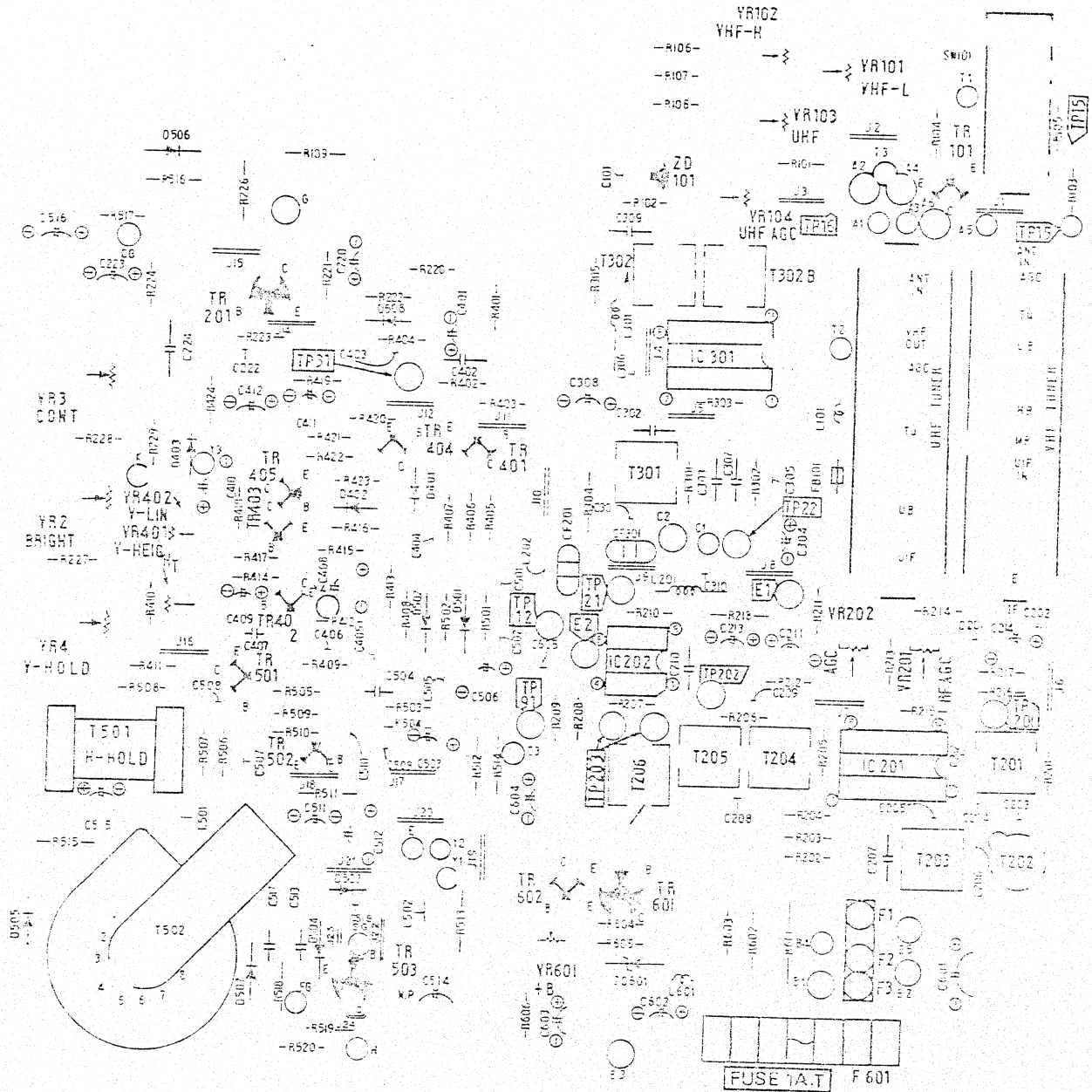
- (1) Connect the level meter to earphone jack.
- (2) Remove cassette compartment from the receiver.
- (3) Reproduce play head azimuth alignment tape (TEAC, MTT-114 or equivalent).
- (4) Adjust azimuth screw to obtain maximum output on the level meter.



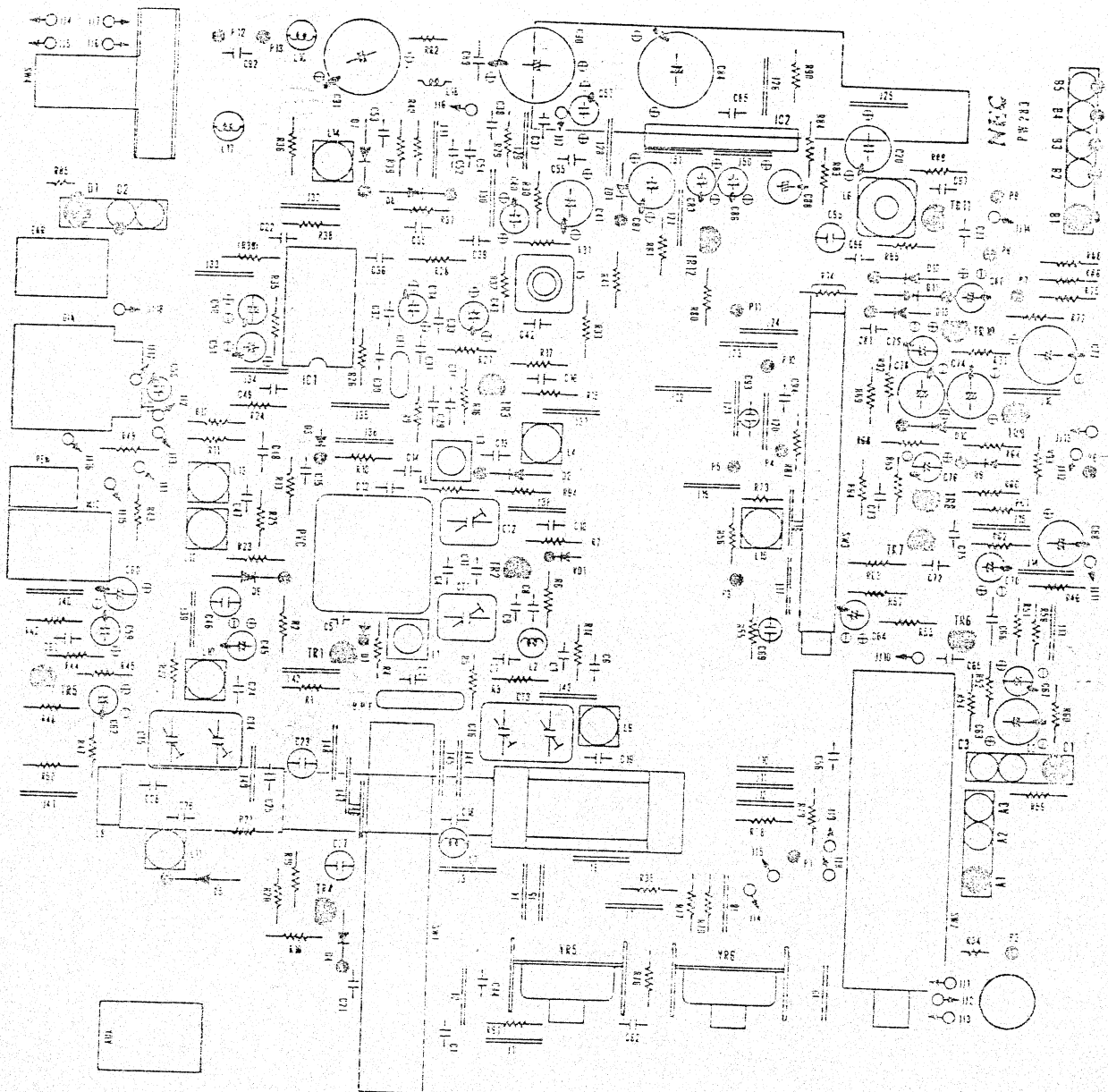
MAIN PWB ASS'Y PW-276 (Component Side)



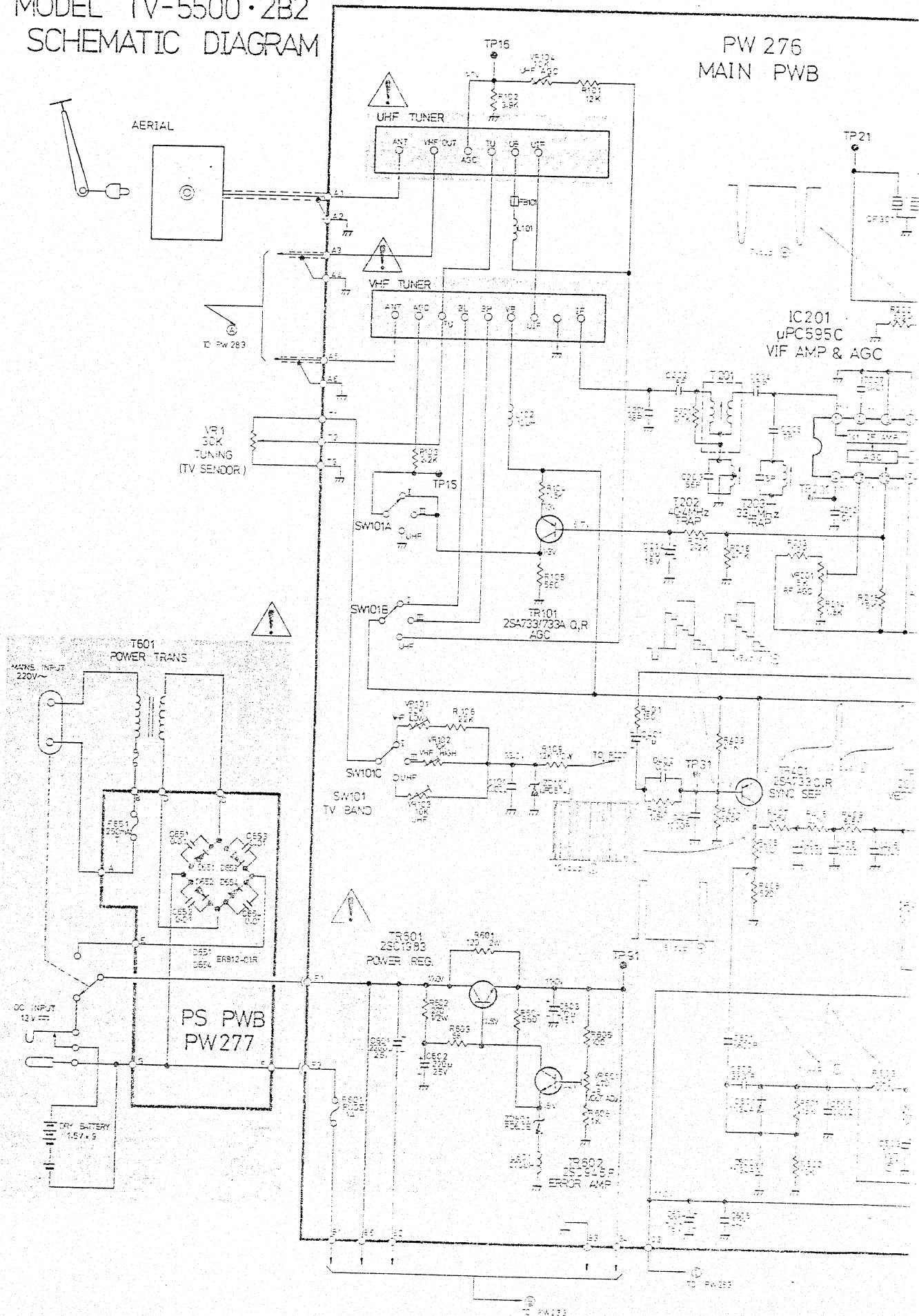
MAIN PWB ASS'Y PW-276 (Solder Side)

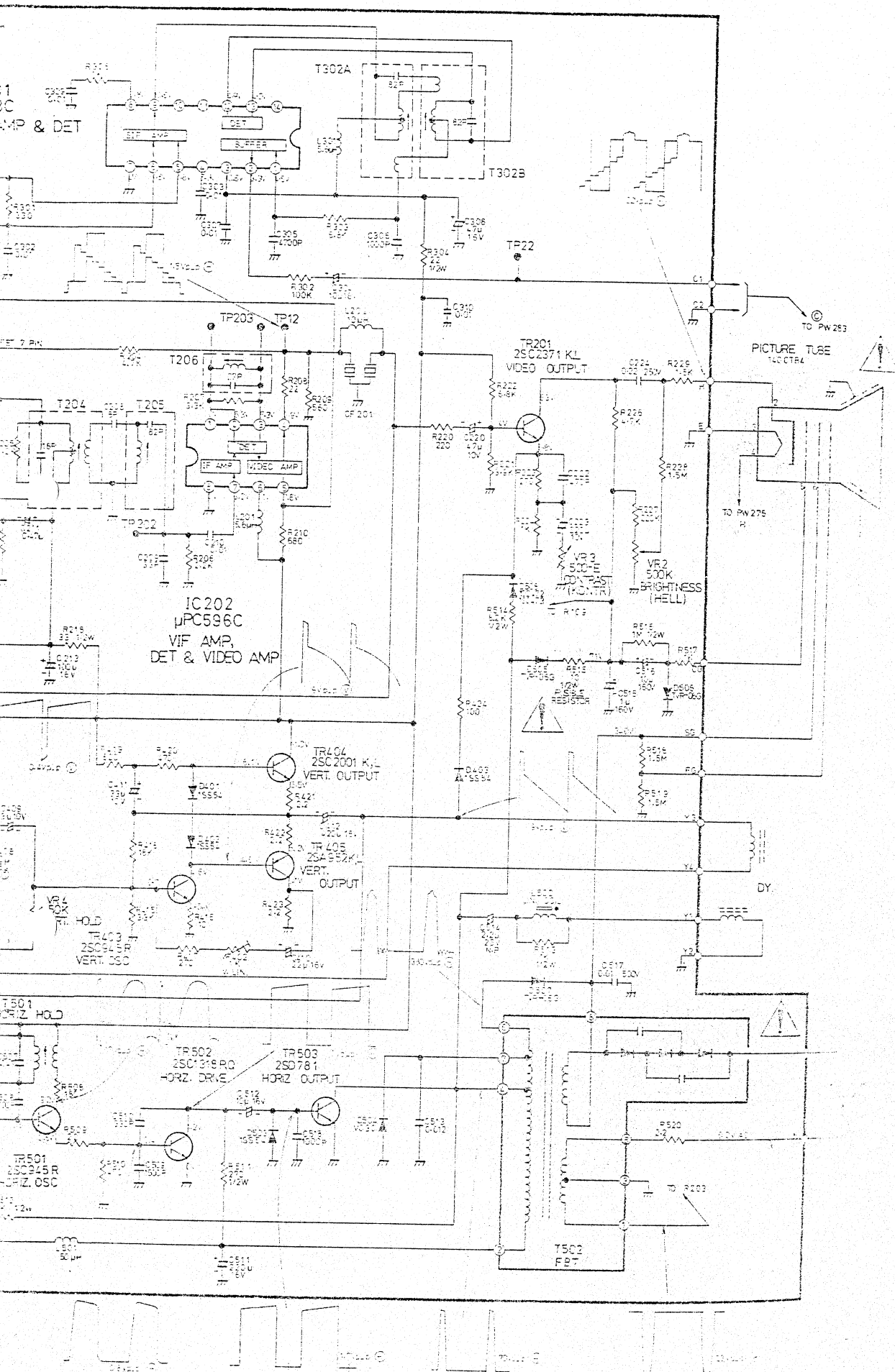


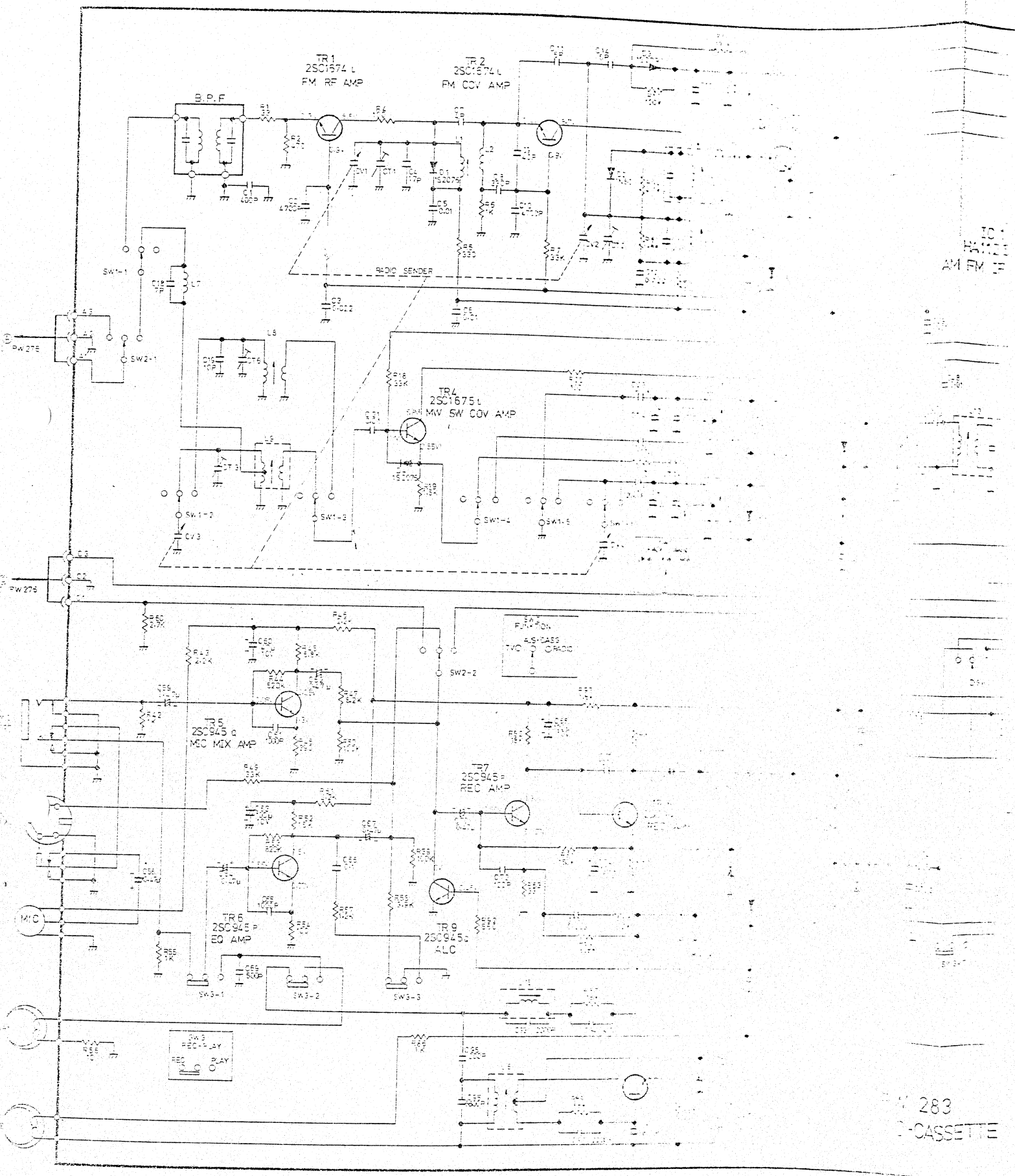
RADIO-CASSETTE PWB ASS'Y PW-283 (Component Side)

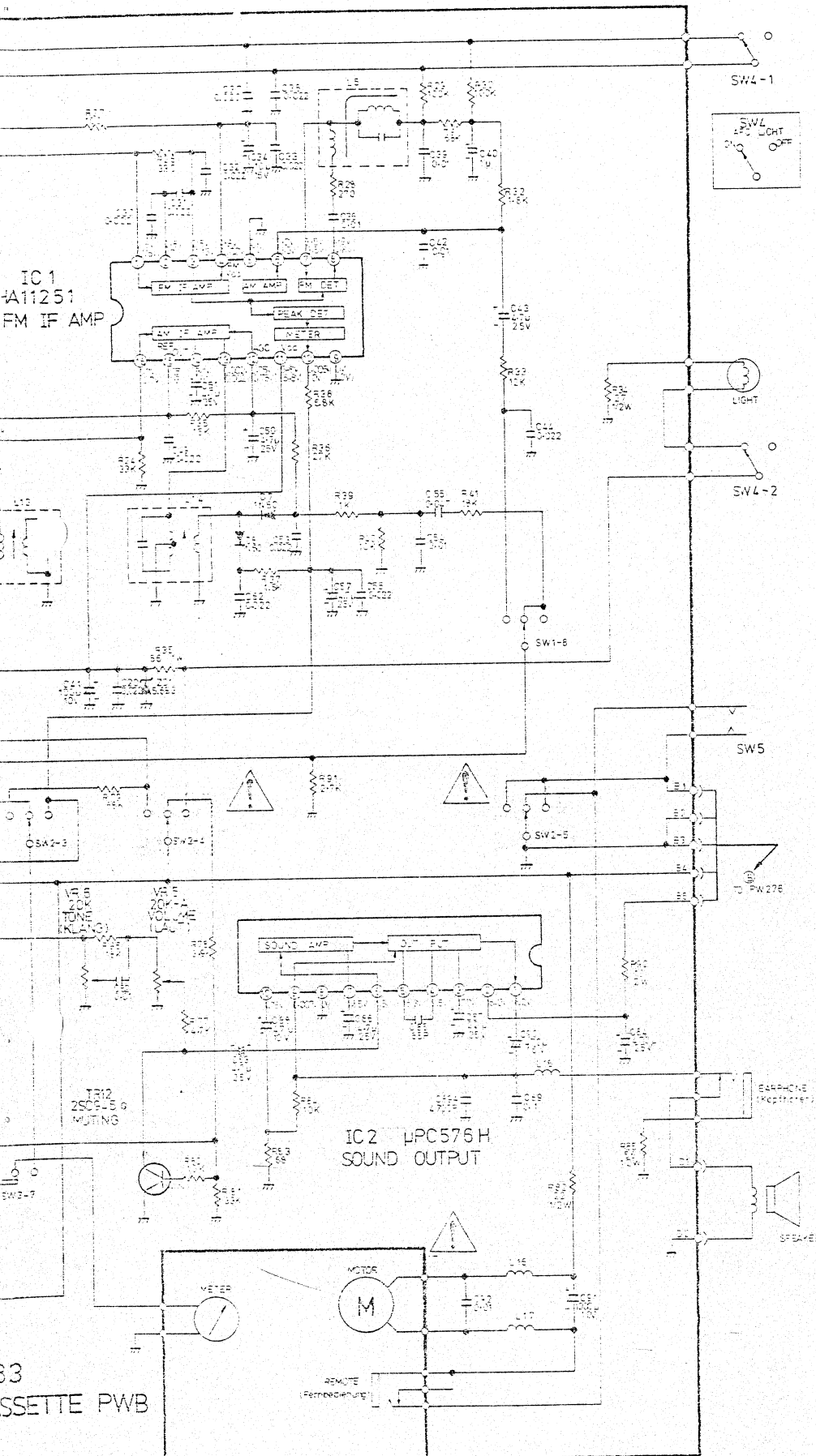


MODEL TV-5500-2B2 SCHEMATIC DIAGRAM









NOTES

1. RESISTOR VALUES ARE IN OHMS, K=KILOHM, M=MEG OHM, UNLESS OTHERWISE INDICATED.
2. ALL RESISTORS ARE 1/4WATT, EXCEPT WHERE OTHERWISE INDICATED.
3. CAPACITOR VALUES ARE P.F. UNLESS OTHERWISE INDICATED.
4. ALL CAPACITORS ARE 50VDC UNLESS OTHERWISE INDICATED.
5. VOLTAGES AND WAVEFORMS MEASURED WITH NORMAL SIGNAL INPUT AND NORMAL MAINTENANCE CONTROL AT NORMALLY ALL OTHER CONTROLS SET FOR NORMAL OPERATION.

- SW1-B-----FM OPERATION
SW2-5-----FM OPERATION
SW2-7-----FM OPERATION
SW4-1-----FM OPERATION
SW4-2-----FM OPERATION
SW5-----FM OPERATION
LIGHT-----FM OPERATION
SPEAKER-----FM OPERATION
REMO (Remediation)-----FM OPERATION

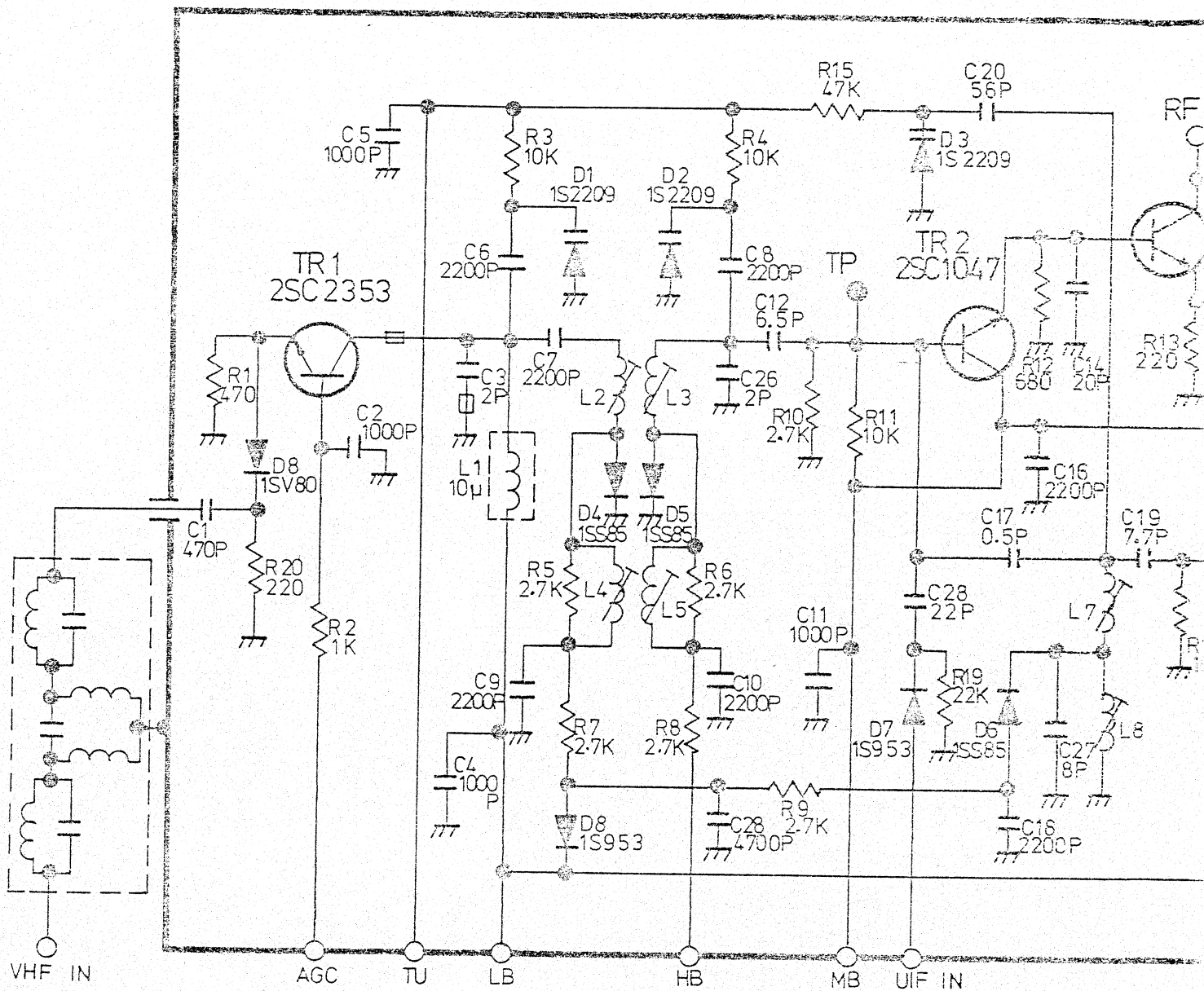
WARNING

USE PRESENT PARTS WHICH ARE SPECIAL SAFETY COMPONENTS ARE IDENTIFIED BY A WARNING MARK IN THE SCHEMATIC.

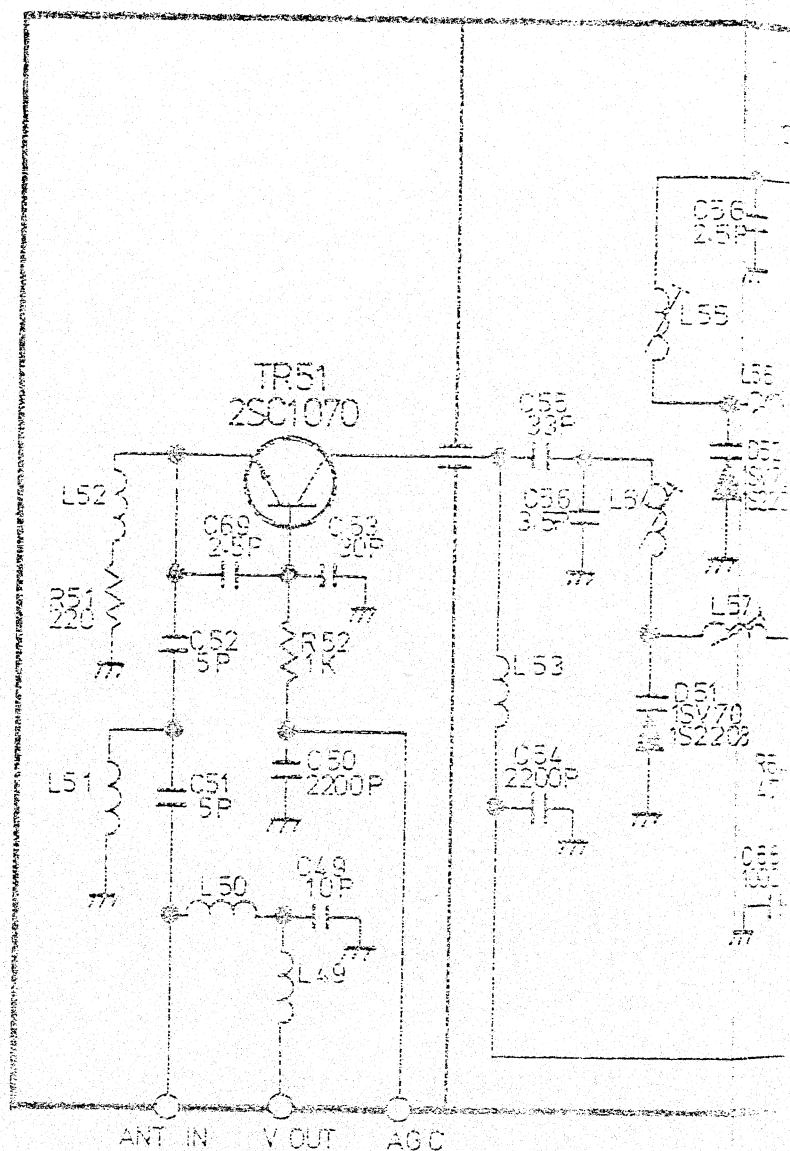
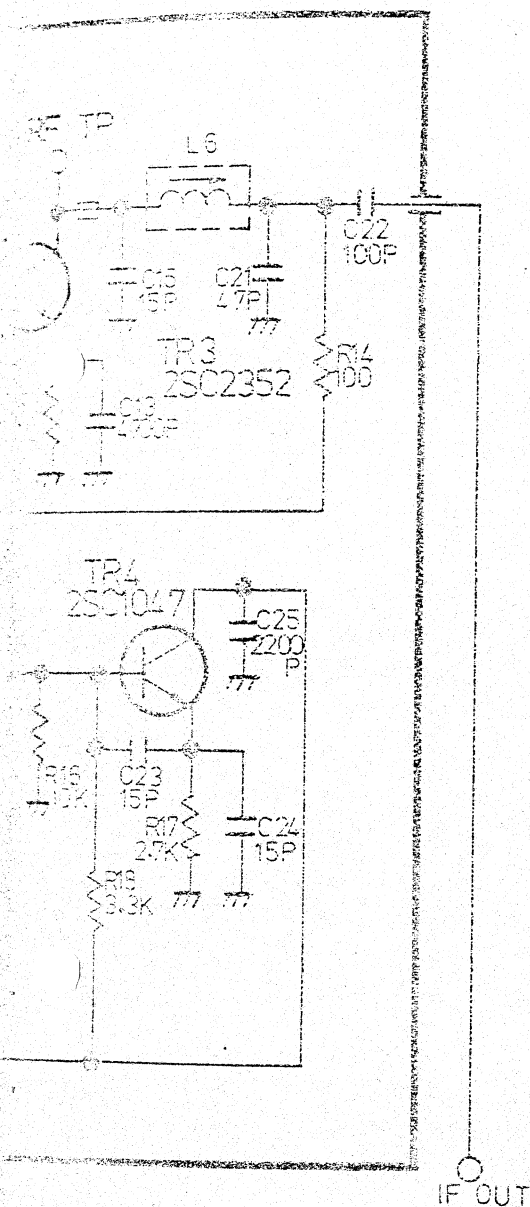
REPLACE THESE CRITICAL COMPONENTS WITH RECOMMENDED REPLACEMENT PARTS.

DON'T DEGRADE THE SAFETY OF THE SYSTEM THROUGH IMPROPER SERVICE.

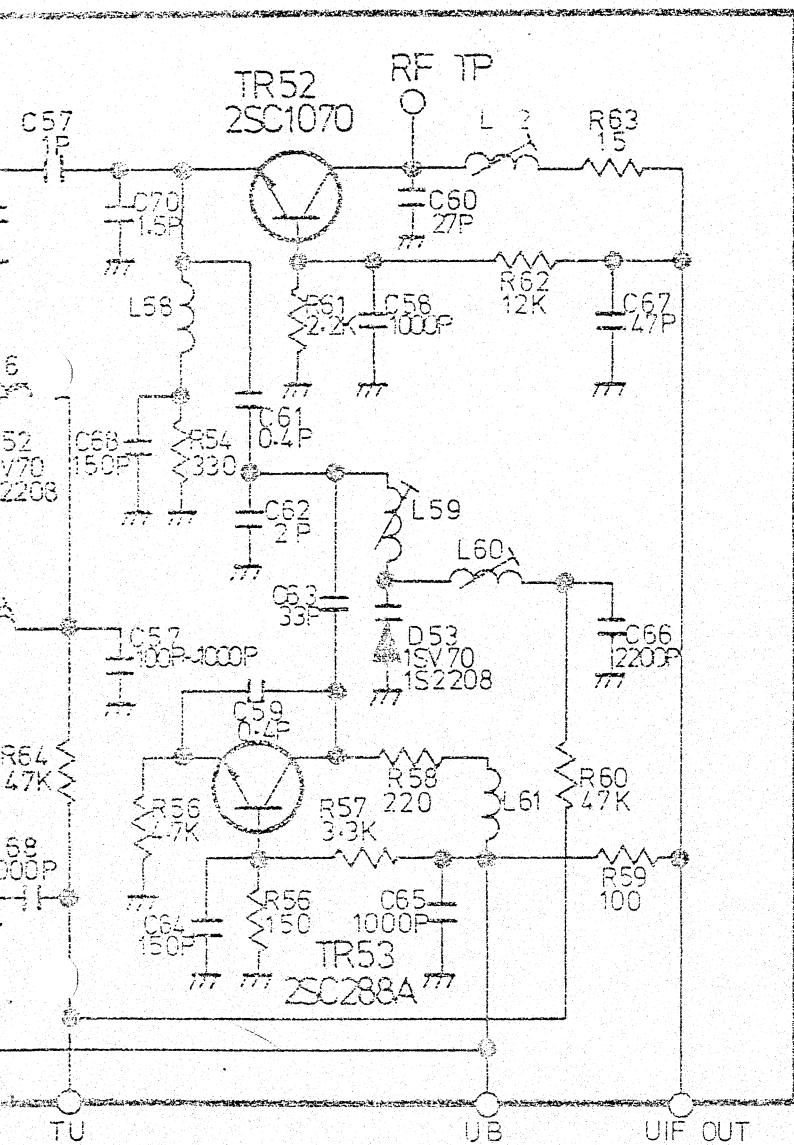
VHF TUNER



UHF 1



TUNER

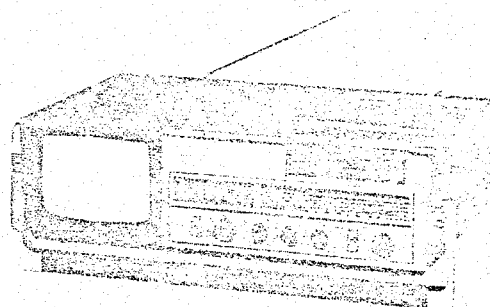


REPLACEMENT PARTS LIST

FOR

NEC

55 B/W TV/RADIO/CASSETTE
COMBINATION



TV-5500-2B2

SYMBOL NO.	PART NO.	DESCRIPTION	Q'TY	REMARKS
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Transistors

TR101, 401	35003517	Transistor, 2SA733	2	
TR405	35004411	Transistor, 2SA952 K	1	
TR402, 403, 501, 602	35047218	Transistor, 2SC945 R	4	
TR502	35050217	Transistor, 2SC1318 Q	1	
TR601	35053500	Transistor, 2SC1983	1	
TR201	35053811	Transistor, 2SC2371 (1) K	1	
TR404	35055311	Transistor, 2SC2001 K	1	
TR503	35064800	Transistor, 2SD781	1	

Diodes

D508	36001009	Diode, Si. 1S-2473	1	
ZD601	36003034	Diode, Zener RD8.2E	1	
ZD101	36003049	Diode, Zener MPC-574J	1	
D401, 402, 403, 503	360K1015	Diode, Si. 1SS54	4	
D501, 502	360K2015	Diode, Ge. 1N34A	2	
D504	36107073	Rectifier, Silicon V03C	1	
D651, 652, 653, 654	36107082	Rectifier, Si. ERB12-01R	4	
D505, 506, 507	360K7160	Rectifier, Si. TVR-06G	3	

ICs

IC301	37001013	IC, MPC558C	1	
IC201	37007007	IC, MPC595C	1	
IC202	37007008	IC, MPC596C	1	

Electrical Parts

T601	45027403	Trans, Power	1	
T502	47304059	F.B.T	1	
	48201050	Deflection Yoke	1	

SYMBOL NO.	PART NO.	DESCRIPTION	Q'TY	REMARKS
	5863015D	Tuner, VHF (ED3015)	1	
	5863215D	Tuner, UHF (ED3215)	1	
T201	60226016	V. IFT INP 38MHz	1	
T204	60226017	V. IFT 1st A 38MHz	1	
T205	60226018	V. IFT 1st B 38MHz	1	
T206	60226021	Coil, Picture Tuning	1	
T203	60231006	Coil, Trap 33.4MHz	1	
T202	60233001	Coil, Trap	1	
T301	60305005	S. IFT 5.5MHz	1	
T302A	60331003	Trans-A, Ratio Detector	1	
T302B	60331004	Trans-B, Ratio Detector	1	
L502	60917029	Coil, H. Linearity	1	
T501	60953006	Coil, H OSC	1	
L202	61013013	Coil, Filter 10 μ H	1	
L601	61051534	Coil, Filter 270 μ H	1	
L501	61064005	Coil, Filter 50 μ H	1	
L101	61099003	Coil, 9.5T (T3-4)	1	
L102	61099004	Coil, Filter L100M	1	
L201, 301	610F6014	Coil, Filter 5.6MH	2	
CF301	61102003	SIF Filter 5.5MHz	1	
CF201	61111004	Ceramic Trap 5.5MHz	1	
	62066041	Whip Antenna	1	
	63011109	Speaker 102mm 8 Ω 2W	1	
SW101	66002001	Switch, Lever	1	
	66671025	Fuse, 250mA	1	
F601	66671003	Fuse, 1A	1	
	70031029	Socket, CRT	1	
	70521029	Connector, Line Cord	1	
	70800401	Line, Cord (E)	1	
	71110123	Terminal Board, Ant	1	
	71205034	Fuse Holder	2	
	71501018	Terminal	7	
	79690009	Radio Cassette Unit	1	
	94613101	Main PWB Ass'y	1	
	94613201	PS PWB Ass'y	1	

SYMBOL NO.	PART NO.	DESCRIPTION	Q'TY	REMARKS
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Variable Resistors

VR102, 103, 104, 401	41061001	R, Variable 10K Ω 0.15W	4	
VR402	41061002	R, Variable 1K Ω 0.15W	1	
VR601	41061007	R, Variable 470 Ω 0.15W	1	
VR101	41061012	R, Variable 22K Ω 0.15W	1	
VR3	41069001	R, Variable 500V 0.3W	1	
VR4	41069002	R, Variable 50K Ω 0.3W	1	
VR2	41069003	R, Variable 500K Ω 0.3W	1	
VR201, 202	41087058	R, Variable 5K Ω 0.2W	2	
	41099045	R, Variable 30K Ω 0.5W	1	

Picture Tube

	5511126E	CRT 140CTB4-TV	1	
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Cabinet Parts

	24311391	Cabinet-B, Back	1	
	24311361	Cabinet, Front	1	
	24311441	Cabinet-T, Back	1	
	24423221	Cover, Battery	1	
	24423301	Drum	1	
	24423581	Escutcheon Side	1	
	24423612	Handle	1	
	24423682	Pointer Dial	3	
	24423691	Cushion-A, Sheet	2	
	24423702	Case, Cassette	1	
	24424021	Collar-A	1	
	24424051	Collar-B	3	
	24771672	Name Plate Instruction	1	
	92205306	Dial Cord Dia. 0.3	0.473m	

Knobs

	24464101	Knob, Tuning	2	
	24464111	Knob, Control	2	
	24464131	Knob, Control	1	
	24464151	Knob, Lever	2	
	24464161	Button Push	1	

SYMBOL NO.	PART NO.	DESCRIPTION	Q'TY	REMARKS
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Packing Materials & Accessories

	24771831	Label, Caution	1	
	24772831	Label	1	
	24809671	Bag, Polyethylene	1	
	24814881	Filler-L, Carton	1	
	24814891	Filler-R, Carton	1	
	24815071	Sheet, Protection	1	
	24815101	Sporage, Plate	1	
	24815092	Carton Box	1	
	78015923	Instruction Book	1	
	78067961	Label, Schematic Diagram	1	

Resistors

R511, 602	40003030	R, Solid	270 Ω	10%	1/4W	2	
R512	40003041	R, Solid	2.2K Ω	10%	1/4W	1	
R514	40003048	R, Solid	8.2K Ω	10%	1/4W	1	
R109	40003050	R, Solid	12K Ω	10%	1/4W	1	
R516	40003073	R, Solid	1M Ω	10%	1/4W	1	
R304	40003517	R, Solid	22 Ω	10%	1/4W	1	
R218	40003519	R, Solid	33 Ω	10%	1/4W	1	
R513	400K3537	R, Solid	1.0K Ω	10%	1/4W	1	
R226	400K3545	R, Solid	4.7K Ω	10%	1/4W	1	
R603	40106145	R, Carbon	68 Ω	5%	1/4W	1	
R228, 518, 519	40106249	R, Carbon	1.5M Ω	5%	1/4W	3	
R421, 422, 423, 520	401K2609	R, Carbon	2.2 Ω	5%	1/4W	4	
R413	401K2617	R, Carbon	4.7 Ω	5%	1/4W	1	
R412	401K2621	R, Carbon	6.8 Ω	5%	1/4W	1	
R416	401K2625	R, Carbon	10 Ω	5%	1/4W	1	
R208, 509	401K2633	R, Carbon	22 Ω	5%	1/4W	2	
R424, 605	401K2649	R, Carbon	100 Ω	5%	1/4W	2	
R401	401K2653	R, Carbon	150 Ω	5%	1/4W	1	
R508	401K2655	R, Carbon	180 Ω	5%	1/4W	1	
R220	401K2657	R, Carbon	220 Ω	5%	1/4W	1	
R223, 417	401K2659	R, Carbon	270 Ω	5%	1/4W	2	
R301	401K2661	R, Carbon	330 Ω	5%	1/4W	1	
R420, 504, 510	401K2665	R, Carbon	470 Ω	5%	1/4W	3	
R105, 209, 405, 604	401K2667	R, Carbon	560 Ω	5%	1/4W	4	
R210	401K2669	R, Carbon	680 Ω	5%	1/4W	1	
R403, 419	401K2671	R, Carbon	820 Ω	5%	1/4W	2	
R224, 305, 517, 606	401K2673	R, Carbon	1K Ω	5%	1/4W	4	

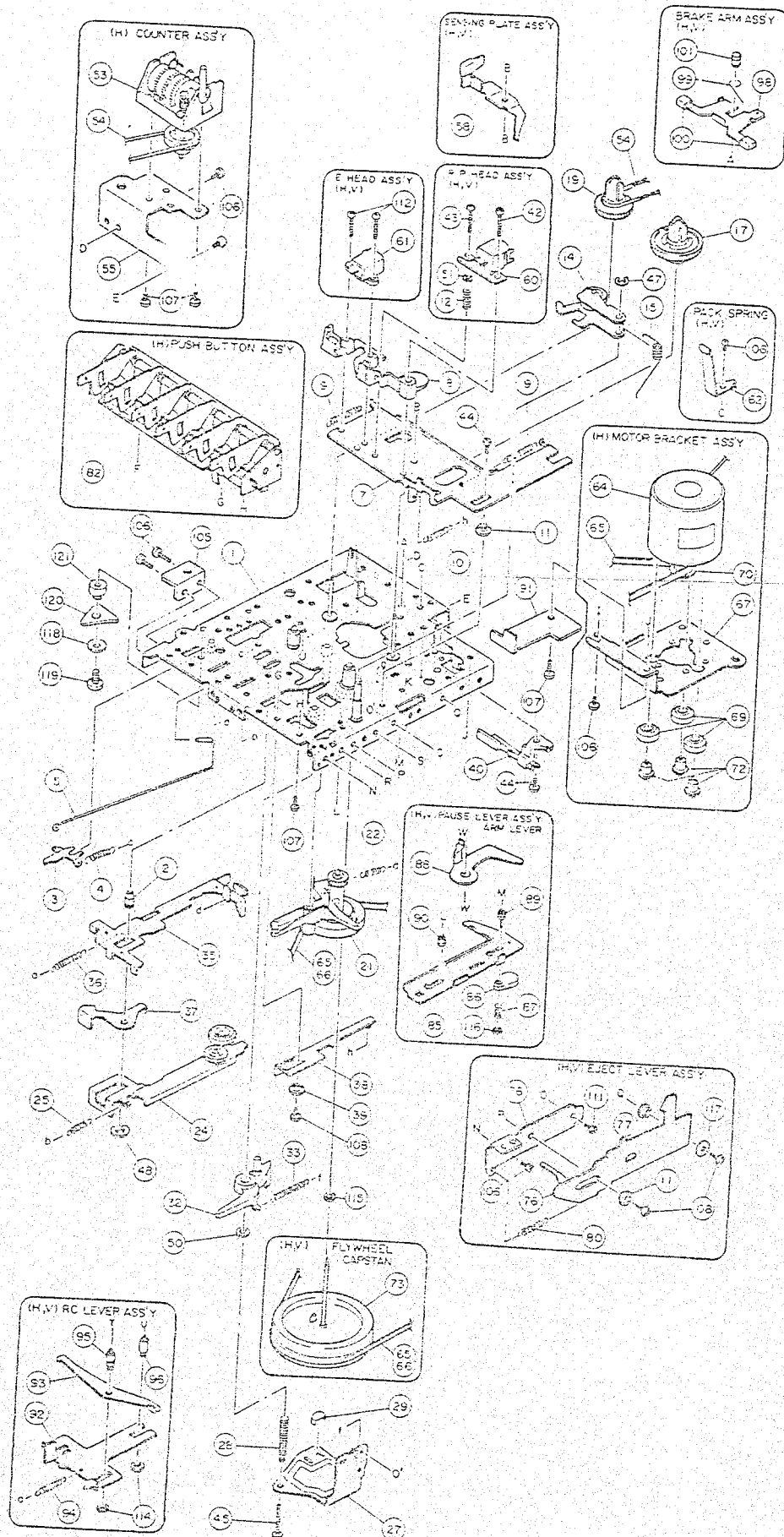
SYMBOL NO.	PART NO.	DESCRIPTION				Q'TY	REMARKS
R213, 505	401K2675	R, Carbon	1.2K Ω	5%	1/4W	2	
R104, 229, 402, 507	401K2677	R, Carbon	1.5K Ω	5%	1/4W	4	
R214, 410	401K2679	R, Carbon	1.8K Ω	5%	1/4W	2	
R103, 202, 206, 217, 503	401K2681	R, Carbon	2.2K Ω	5%	1/4W	5	
R201	401K2683	R, Carbon	2.7K Ω	5%	1/4W	1	
R207, 415	401K2685	R, Carbon	3.3K Ω	5%	1/4W	2	
R102, 221	401K2687	R, Carbon	3.9K Ω	5%	1/4W	2	
R203, 204, 216, 407, 408	401K2689	R, Carbon	4.7K Ω	5%	1/4W	5	
R222, 303, 409	401K2693	R, Carbon	6.8K Ω	5%	1/4W	3	
R205	401K2695	R, Carbon	8.2K Ω	5%	1/4W	1	
R502	401K2697	R, Carbon	10K Ω	5%	1/4W	1	
R101, 211, 414	401K2699	R, Carbon	12K Ω	5%	1/4W	3	
R215, 501	401K2701	R, Carbon	15K Ω	5%	1/4W	2	
R418, 506	401K2703	R, Carbon	18K Ω	5%	1/4W	2	
R106, 411	401K2705	R, Carbon	22K Ω	5%	1/4W	2	
R403	401K2713	R, Carbon	47K Ω	5%	1/4W	1	
R302	401K2721	R, Carbon	100K Ω	5%	1/4W	1	
R227	401K2729	R, Carbon	220K Ω	5%	1/4W	1	
R404	401K2741	R, Carbon	680K Ω	5%	1/4W	1	
R212	401K2743	R, Carbon	820K Ω	5%	1/4W	1	
R601	40352151	R, Metal	120 Ω	5%	2W	1	
R515	40812625	R, Fuse	10 Ω	5%	1/4W	1	

Capacitors

C517	42019575	C, Ceramic	500V	0.01 μ F	1	
C605, 651, 652, 653, 654	42110425	C, Ceramic	50V	0.01 μ F	5	
C101, 404, 405	42110429	C, Ceramic	50V	0.022 μ F	3	
C510	42130207	C, Ceramic	50V	330pF	1	
C222	42130209	C, Ceramic	50V	470pF	1	
C306, 403, 518	42130213	C, Ceramic	50V	0.001 μ F	3	
C509	42130215	C, Ceramic	50V	1500pF	1	
C305	42130221	C, Ceramic	50V	4700pF	1	
C310	42130225	C, Ceramic	50V	0.01 μ F	1	
C207, 210, 302, 303, 307, 309, 402	42101025	C, Ceramic	25V	0.01 μ F	7	
C202, 208	42311013	C, Ceramic	50V	8pF	2	
C301	42311015	C, Ceramic	50V	10pF	1	
C204	42311023	C, Ceramic	50V	12pF	1	
C209	42311033	C, Ceramic	50V	33pF	1	
C201	42311041	C, Ceramic	50V	68pF	1	
C205	42312012	C, Ceramic	50V	7pF	1	

SYMBOL NO.	PART NO.	DESCRIPTION			Q'TY	REMARKS
C203	42312039	C, Ceramic	50V	56pF	1	
C513	42707414	C, Film	630V	0.012 μ F	1	
C224	42739009	C, Film	250V	0.22 μ F	1	
C502	42754004	C, Mylar	50V	3300pF	1	
C501	42754006	C, Mylar	50V	6800pF	1	
C505	42754009	C, Mylar	50V	0.022 μ F	1	
C212, 407	42754013	C, Mylar	50V	0.1 μ F	2	
C508	42754059	C, Mylar	50V	4700pF	1	
C406, 507	42754071	C, Mylar	50V	0.047 μ F	2	
C504	42754076	C, Mylar	50V	0.15 μ F	1	
C515	43005116	C, Elec.	160V	1 μ F	1	
C516	43005120	C, Elec.	160V	10 μ F	1	
C409, 411	43011014	C, Elec.	10V	33 μ F	2	
C220	43011015	C, Elec.	10V	47 μ F	1	
C223	43011017	C, Elec.	10V	220 μ F	1	
C214, 304, 512	43011028	C, Elec.	16V	10 μ F	3	
C410	43011029	C, Elec.	16V	22 μ F	1	
C308	43011031	C, Elec.	16V	47 μ F	1	
C213	43011032	C, Elec.	16V	100 μ F	1	
C511	43011033	C, Elec.	16V	220 μ F	1	
C412, 603, 604	43011035	C, Elec.	16V	470 μ F	3	
C602	43011048	C, Elec.	25V	220 μ F	1	
C401	43011066	C, Elec.	50V	1 μ F	1	
C211, 506	43013071	C, Elec.	50V	0.47 μ F	2	
C601	43104036	C, Elec.	25V	2200 μ F	1	
C514	43399008	C, Non-Polar	25V	4.7 μ F	1	
C408, 503	43515055	C, Tantalum	16V	10 μ F	2	

EXPLODED VIEW OF MECHANISM UNIT



EXPLODED VIEW NO.	SYMBOL NO.	PART NO.	DESCRIPTION	Q'TY	REMARKS
		TN-27H-76	Mechanism Unit	1	
14		0000094M	—Pinch Roller Ass'y	1	
17		0000095M	—Take Up Reel Ass'y	1	
19		0000096M	—Supply Reel Ass'y	1	
21		0000097M	—RF Clutch Ass'y	1	
24		0000098M	—FF Idler Arm Ass'y	1	
32		0000099M	—Auto-Stop Lever	1	
37		0000100M	—Rewind Arm	1	
40		0000101M	—Leaf Switch	1	
53		0000102M	—Counter	1	
54		0000103M	—Counter Belt	1	
60		0000104M	—R/P Head	1	
61		0000105M	—Erase Head	1	
64		0000106M	—Motor	1	
65		0000107M	—Main Belt	1	
70		0000108M	—Motor Pulley	1	
73		0000109M	—Flywheel Capstan	1	
82		0000110M	—Push Button Ass'y	1	
		24464591	Cassette Knob	6	
		0000111M	Drum Spring	1	
		0000112M	Tuning Shaft	1	
		0000113M	Dial Plate	1	
		0000114M	Dial	1	
		0000115M	Dial Cord 1,155 mm	1	
		0000116M	Meter	1	
		24424892	Pointer	1	
		0000117M	Lamp	1	
		0000118M	PWB Ass'y	1	
		0000119M	Polyethene Varicon	1	
	SW3	0000120M	R/P Switch	1	
	SW1	0000121M	Band Selector Switch	1	
	SW2	0000122M	Function Switch	1	
	VR6	0000123M	VR20K Ω	1	
	VR5	0000124M	VR20K Ω	1	
	L8	0000125M	MW ANT. Coil	1	
	L7	0000126M	SW Trap Coil	1	
	L10	0000127M	MW OSC Coil	1	
	L11	0000128M	SW OSC Coil	1	
	L19	0000129M	SW ANT. Coil	1	

EXPLODED VIEW NO.	SYMBOL NO.	PART NO.	DESCRIPTION	Q'TY	REMARKS
	L12	0000130M	AM IFT A.	1	
	L13	0000131M	AM IFT B.	1	
	L14	0000132M	AM IFT C.	1	
	L4	0000133M	FM IFT A	1	
	L5	0000134M	FM IFT DES	1	
	L6	0000135M	Recording Bais Coil	1	
	L15	0000136M	Bias Trap Coil	1	
	L2	0000137M	FM Choke Coil	1	
	L3	0000138M	FM OSC Coil	1	
	L1	0000139M	FM RF Coil	1	
	L16, 17	0000140M	Motor Choke Coil	1	
	L18	0000141M	Locked Inductor	1	
	SW4	0000142M	Push Switch	1	
	TR1, 2	0000143M	TR 2SC1674 (L)	2	
	TR3, 4	0000144M	TR 2SC1675 (L)	2	
	TR6, 7	0000145M	TR 2SC945	2	
	TR5, 8	0000146M	TR 2SC945	2	
	TR9, 11, 12	0000147M	TR 2SC945	4	
	D2, 5, 6, 7, 10	0000148M	IN60	8	
	D3	0000149M	Diode, IS2790	1	
	D1, 4, 9	0000150M	Diode, IS2076	4	
	ZD1	0000151M	Diode, RD5.6EB3	1	
	VD1	0000152M	Varistor, KB265D	1	
	IC1	0000153M	IC HA11251	1	
	IC2	0000154M	IC UPC576H	1	
		0000155M	Jack Plate	1	
		0000156M	DIN Jack	1	
		0000157M	Iner Microphone	1	
	B.P.F 1	0000158M	Band Pass Filter	1	
	CF1	0000159M	Ceramic Filter 10.7MHz	1	